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OHIO OCCUPATIONAL RESEARCH AND DEVELOPMENT COORDINATING UNIT. INTERIM REPORT.

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DESCRIPTORS- *RESEARCH COORDINATING UNITS, *STATE PROGRAMS, *VOCATIONAL EDUCATION, *EDUCATIONAL RESEARCH, *PROGRAM DESCRIPTIONS, OHIO,

THE MAJOR THRUST OF UNIT ACTIVITIES DURING THE FIRST PERIOD OF OPERATION, JUNE 1, 1965 TO NOVEMBER 30, 1966, WAS TO EXTEND AND IMPROVE VOCATIONAL EDUCATION WITHIN THE STATE. DEVELOPING CONTINUOUS COMMUNICATION WITH LOCAL, STATE AND NATIONAL OFFICIALS WAS AN EARLY EFFORT. SUCH COMMUNICATION RESULTED IN THE UNIT'S MAKING COST PLANS FOR DEVELOPING VOCATIONAL AND TECHNICAL SCHOOLS, INITIATING GUIDELINES AND INSTRUMENTS FOR USE BY SCHOOL DISTRICT BOARDS OF EDUCATION, AND MAKING COMMUNITY VOCATIONAL SURVEYS FOR STUDYING JOINT VOCATIONAL SCHOOLS IN APPROXIMATELY ONE-THIRD OF OHIO'S COUNTIES AND IN CLEVELAND. IN STIMULATING RESEARCH, THE UNIT HELPED IN IDENTIFYING OCCUPATIONAL TRAINING NEEDS OF YOUTHS AND ADULTS IN OHIO AND MADE NUMEROUS PRESENTATIONS BY MEANS OF WORKSHOPS, SEMINARS, STAFF MEETINGS, AND GENERAL GATHERINGS AT UNIVERSITIES, TRADE ASSOCIATIONS, CITY, COUNTY, AND LOCAL ORGANIZATIONS. THE PUBLICATION "R.C.U. NOTES" CONCENTRATED ON UNIT FUNCTIONS, PROPOSAL EVALUATION, AND THE ERIC SYSTEM. THE UNIT STAFF ASSISTED IN OVER 150 RESEARCH PROJECTS AND PROPOSALS, MANY FOR FEDERAL FUNDING. THE UNIT WAS INSTRUMENTAL IN COMPLETING SEVERAL MAJOR RESEARCH PROJECTS. A MASTER PLAN OF JOINT VOCATIONAL SCHOOLS FOR THE STATE WAS COMPLETED, AND A STATEWIDE VOCATIONAL EDUCATIONAL SURVEY AND COOPERATIVE WORK WITH THE UNIVERSITY OF WISCONSIN IN DEVELOPING A NATIONAL VOCATIONAL EDUCATION DIRECTORY WERE CONTINUED. OTHER PHASES OF VOCATIONAL EDUCATION WERE STUDIED. TO FURTHER PROFESSIONAL DEVELOPMENT, THE STAFF ATTENDED MEETINGS, INDIVIDUAL AND GROUP CONFERENCES, AND REVIEWED THE LITERATURE. A MAJOR FUNCTION WAS COORDINATING VOCATIONAL EDUCATION ACTIVITIES AT BOTH STATE AND NATIONAL LEVELS. FIVE QUARTERLY REPORTS CONTAINING UNIT ORGANIZATION AND DEVELOPMENT, AND PROGRAM ACTIVITIES AND ACCOMPLISHMENTS IN BOTH TABULAR AND SUMMARY FORM ARE INCLUDED. (BS)

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Interim ~~FINAL~~ REPORT

Contract No. OE-5-85-131

OHIO
OCCUPATIONAL RESEARCH AND DEVELOPMENT
COORDINATING UNIT

June, 1967

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

Office of Education
Bureau of Research

VT003991

# FINAL REPORT

# OHIO

# OCCUPATIONAL RESEARCH AND DEVELOPMENT COORDINATING UNIT

Contract Number OE-5-85-131

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

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Period of Contract

June 1, 1965 to June 30, 1967

STATE OF OHIO

DEPARTMENT OF EDUCATION

DIVISION OF VOCATIONAL EDUCATION

612 State Office Building
65 South Front Street
Columbus, Ohio 43215

# FINAL REPORT

# OHIO

# OCCUPATIONAL RESEARCH AND DEVELOPMENT COORDINATING UNIT

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The Project, Number OE-5-85-131, Reported Herein Was Supported by a Grant From the U. S. Department of Health, Education, and Welfare Office of Education, Under the Vocational Education Act of 1963, Section IV(c)

## PREFACE

In response to the passage of The Vocational Education Act of 1963 and under the provision of Section IV(c) the Ohio Occupational Research and Development Coordinating Unit was established within the Division of Vocational Education.

The contractual period for the Unit (Contract No. OE-5-85-131 in the amount of $93,142.) was from June 1, 1965 to November 30, 1966 with the stipulation that work begin September 1, 1965 and was to be completed by December 15, 1966. Work and services were conducted under the direction of Dr. Byrl R. Shoemaker. The U. S. Office of Education project officer was Dr. John E. Bean who was later replaced by Dr. Richard L. Andrews. On June 13, 1966 a proposal for the continuation of the Unit in the amount of $111,412. was transmitted to the United States Commissioner of Education for support through authorization of the Bureau of Research. The continuation proposal as a grant was approved but was funded in the amount of $89,190.

The purpose of the Ohio Unit is to extend and develop opportunities in occupational education for the citizens of the State. Specifically, the Unit's objectives are to: (1) Survey available data concerning employment, emerging occupational trends and future job projections as a basis for planning vocational programs, curricula and facilities; and teacher education, recruitment and placement within the State, (2) Identify issues and problems relating to the nature and place of vocational education in the educational program of the State school system and determine the contribution which occupational research and development could make toward the

resolution of these problems and (3) Stimulate and encourage, coordinate, facilitate and disseminate information concerning occupational education research and development activities in the State Department, local school districts, colleges and universities and non-profit organizations within the State Department of Education and coordinate such research activities with those conducted outside the State.

This final report deals with the development of the Ohio Occupational Research and Development Coordinating Unit and its accomplishments in meeting the above objectives. Attention is given to each area of activity as it contributes to the extension and improvement of vocational education in Ohio.

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## INTRODUCTION

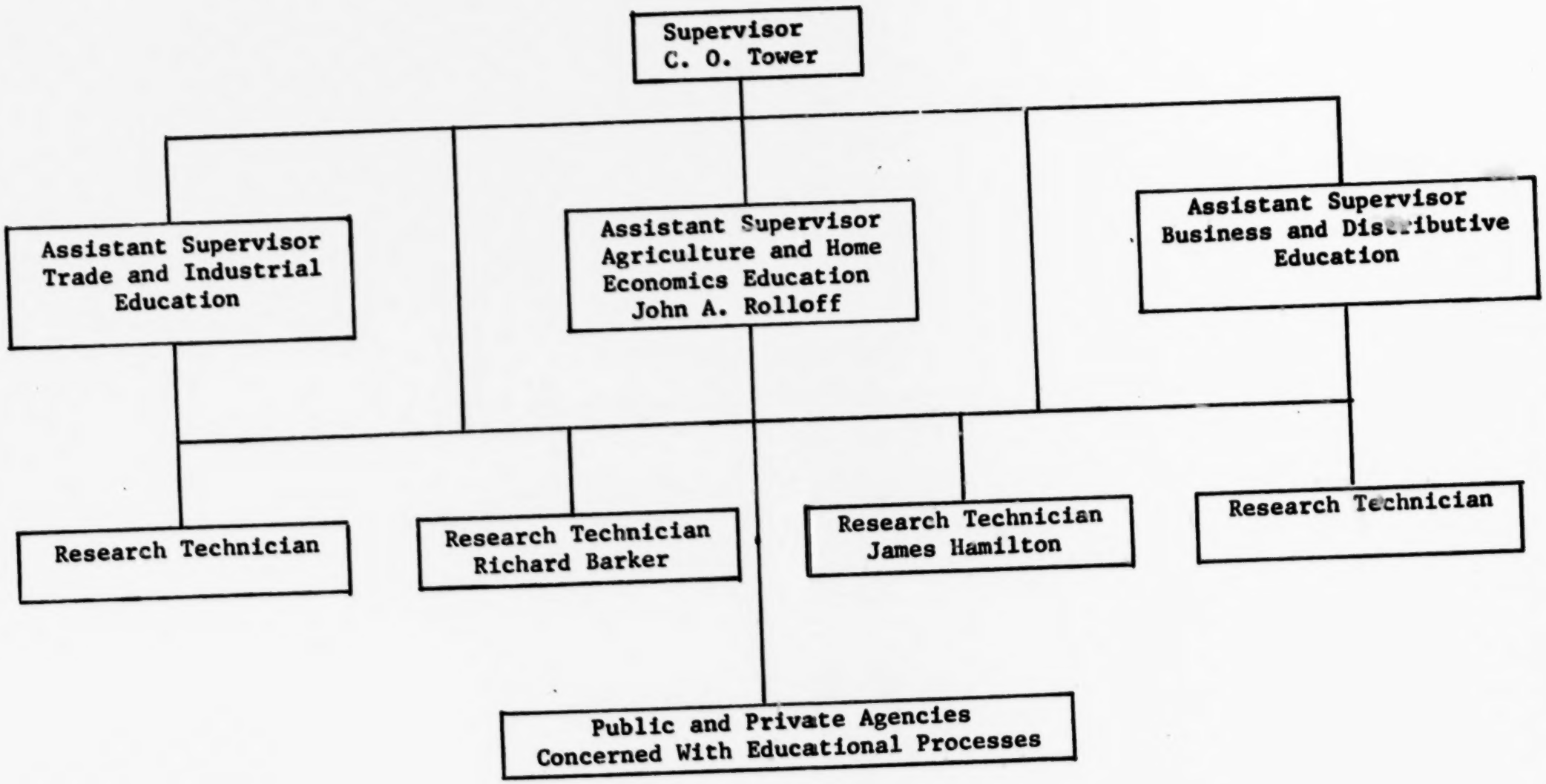
The following report of the Ohio Occupational Research and Development Coordinating Unit is indicative of its establishment, activities and accomplishments from its inception in 1965 to the present. Attention is given to staff positions of the Unit and its organizational framework for attainment of its objectives. Major activities are stated under the headings of (1) Program Development, (2) Stimulating Research, (3) Research, (4) Development of Professional Staff and (5) Coordination. The major activities section only highlights the most notable events of the Unit's accomplishments. A more detailed list of activities are included at the end of this report as they were submitted in quarterly reports to the U. S. Office of Education.

## RESEARCH COORDINATING UNIT STAFF

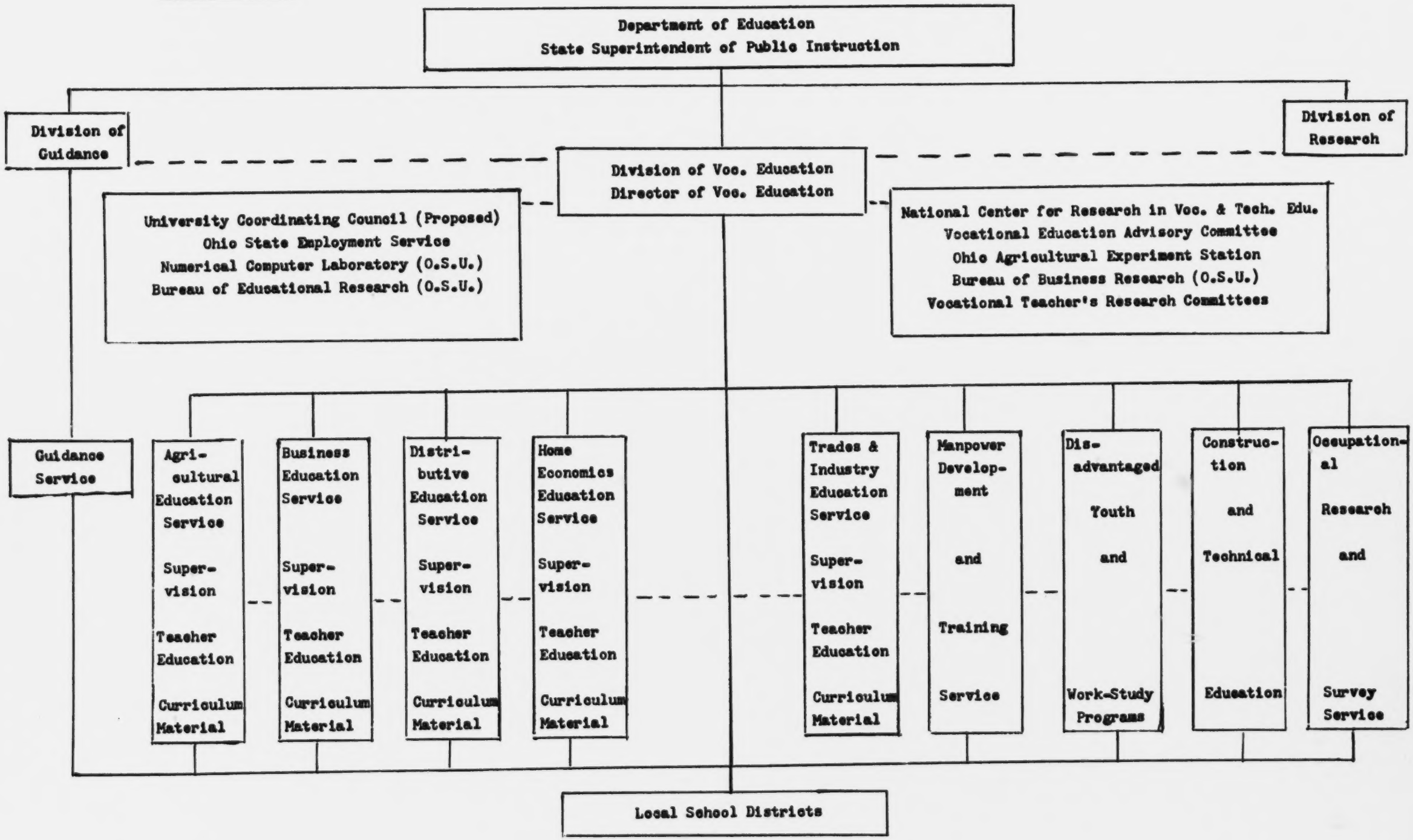
| STAFF POSITION | NAME |
|---|---|
| Director | Mr. C. O. Tower<br>612 State Office Building<br>65 South Front Street<br>Columbus, Ohio 43215<br>Tel. 614 / 469-3430 |
| Stenographer (Full time) | Miss Vickie Turner |
| Research Associate | Mr. John A. Rolloff<br>The Ohio State University<br>204 Agricultural Administration Building<br>2120 Fyffe Road<br>Columbus, Ohio 43210<br>Tel. 614 / 293-4850 |
| Stenographer (Full time) | Mrs. Martha Ervin |
| Research Associate | Unfilled |
| Research Associate | Unfilled |
| Research Technician | Mr. Richard L. Barker |
| Research Technician | Mr. James B. Hamilton |
| Research Consultant | Dr. Ralph E. Bender, Professor & Chairman<br>Department of Agricultural Education |
| Research Consultant | Dr. Richard H. Wilson, Associate Professor<br>Department of Agricultural Education<br>The Ohio State University<br>208 Agricultural Administration Building<br>2120 Fyffe Road<br>Columbus, Ohio 43210<br>Tel. 614 / 293-6321 |
| Research Consultant | Mr. D. R. Purkey<br>Supervisor of Construction and Technical Education<br>612 State Office Building<br>65 South Front Street<br>Columbus, Ohio 43215<br>Tel. 614 / 469-3430 |
| Stenographer (Full time) | Unfilled |
| Stenographer (Part time) | Unfilled |
| Stenographer (Part time) | Unfilled |

Division of Vocational Education
Department of Education, State of Ohio

Organization Chart August 1, 1966
Research and Survey Services



## Organization



## MAJOR ACTIVITIES

### Program Development

The major thrust of the Ohio Research and Development Coordinating Unit in its first year of operation was to extend and improve vocational education within the state. To carry out this function it was necessary to first establish the R.C.U. organization as an integral and functional part of vocational education in Ohio. Office space for the Director and his stenographer was provided within the headquarters of the Division of Vocational Education, State Department of Education, in downtown Columbus. This site offered the opportunity to continue well informed of the daily events within the central office and to act in a direct relationship with the Director. One research associate (now Director of Arkansas R.C.U.) with his stenographer and two research technicians was housed within the Department of Agricultural Education, The Ohio State University. This location offered the opportunity of association with teacher trainers, research personnel, and university specialists as well as access to up-to-date facilities and equipment. The University site has provided an excellent setting for stimulating research as well as direct research endeavors by the Unit staff.

Once Unit personnel had been selected and housed, efforts were extended to establish the Unit role and functions. Purposes, functions, areas of concern, activities, duties and responsibilities were formulated and communicated with local, state and national persons with whom the Unit should coordinate its activities. Continuous efforts were made to facilitate Unit services by developing criteria, holding conferences and in-service training sessions with interested individuals and groups and attending staff meetings and statewide gatherings. Individual conferences were held to further the

effectiveness of R.C.U. work with State and University officials. This continuous communication proved to be extremely helpful in promoting the work of the Unit in its move to extend and improve vocational education in the State of Ohio.

As a result of effective communications with state officials of vocational education, public school personnel and lay people throughout the State, the Unit was asked to participate in the development of joint vocational schools. Cost plans for blanketing the State with vocational schools and technical institutes to accommodate 100,000 pupils at a cost of approximately $200,000,000 were made. This lead to the initiation of guidelines, instruments and aids for use by school district boards of education. Considerable effort was then expended in meeting with interested persons in many locations within the State regarding potential jointures, planning and establishing them. Community vocational surveys for studying joint vocational schools were made and reported to local people. Major thrust in the development of jointures appeared in approximately one-third of Ohio's counties and in the State's largest city of Cleveland.

Stimulating Research

A major concern of the Ohio R.C.U. has been the stimulation of research in vocational education. In accomplishing this task Unit personnel have conferred with interested persons in identifying occupational training needs of youth and adults of Ohio. Numerous presentations have been made by means of workshops, seminars, staff meetings, and general gatherings at universities, trade associations, citizens council assemblies, county and local organizations and the like. The Ohio "R.C.U. Notes" published quarterly has assisted the Unit to extend its work by means of written material sent to

individuals within and outside Ohio. Four issues of the "Notes" have been distributed which concentrated on the topics of Unit functions, proposal evaluation and the ERIC system. This publication has been complimented in stimulating research by surveys, reports and numerous written communications with educators throughout the country.

Promotion and review of research proposals accounted for an important function of the Unit. Efforts were set forth to stimulate research activities at local, county and state levels. Many of these undertakings in turn stimulated the development of research proposals for federal funding. The Unit staff assisted in encouraging, identifying, formulating and/or evaluating over one hundred and fifty such research projects and proposals. This work was carried out with a variety of persons and organizations at all levels of education. Most proposals were in accordance with the Vocational Education Act of 1963, Section IV(c) or Title III of the Elementary and Secondary Education Act. Many of these research endeavors have been or are in the process of being funded by the U. S. Office of Education.

Further stimulation of research work was accomplished with graduate students. They were given assistance in identifying problems and outlining studies. Statistical design and treatment of data advice and direction were often given to students through seminar sessions and/or on individual basis. More than twenty such studies have been reviewed by this Unit.

## Research

The Ohio R.C.U. was instrumental in the completion of several major research projects this year. Considerable effort was devoted to the vocational education phase of Dr. D. R. Purdy's study of Ohio's Master Plan for School District Organization. A Master Plan of joint vocational schools for the

State with 57 schools was completed. This study included pupil enrollment, district, per pupil cost for capital, outlay and operation and total cost of construction and operation. The Unit prepared the following reports: (a) Programs Illustrative of Vocational Offerings in Joint Vocational Schools by Size (b) The Purposes and Scope of Vocational Subject Matter Areas in the State of Ohio (c) The Vocational School and the Intermediate School District - maximum and optimum enrollment of vocational schools (d) assisted in the preparation of the Seven Guidelines for Establishing of Joint Vocational School Districts.

Further research activity revolved around a statewide vocational education survey. This study was prompted by a new State law effective July 1, 1967 which requires that a pupil must receive an adequate vocational preparation before dropping out of school and that all public school districts must offer an adequate vocational program. The purpose of the survey was to determine what, if anything, local school districts planned to do in meeting the requirements of the State legislation. The survey was analyzed and summarized by Unit staff. The final report was written, reviewed by the Director of Vocational Education and presented to the Superintendent of Public Instruction by our staff members.

In an attempt to determine needed vocational education programs a study was conducted by the Unit. Efforts were extended to survey available data concerning employment, occupational trends and future job projections. Data was further gathered relative to educational levels of the State population, breakdown of employed persons by occupational categories and related information.

The Ohio Unit cooperated with the University of Wisconsin in its project with the U. S. Office of Education in developing a National Vocational

Education Directory containing each school in the United States with vocational curriculum offerings. This project required a substantial amount of time to the Unit effort.

The Unit is still working on an extensive project which has significant implications for vocational education in Ohio. This project involves the use of data processing in gathering of information for administering vocational education programs. When completed, it will eliminate duplication of efforts by State administrators and local school personnel in reporting vocational programs. It will further expedite program analysis and funding.

Responsibility for programing the University of California (Berkeley) project in Ohio on Research and Development in State Administration of Vocational Education was assumed by the Unit. The meeting was arranged and chaired by the R.C.U. Director. He was further responsible for all follow-up work of gathering materials and writing of the final report for the project.

Extensive study has been conducted with the Cleveland, Ohio, public schools in its development of vocational education. Programs for occupational education at all levels have been extended and improved as a result of the work done by the Unit. This work is still in progress as the city progresses in meeting the occupational needs of its local citizens.

A study was conducted by the Unit pursuant to the effects of the Penta County Joint Vocational School upon the educational programs of member schools. Reimbursement, class size, numbers of teachers and enrollment patterns were analyzed in contributing schools.

Two studies were completed through the Unit in agricultural education. These dealt with farm management instruction; one at the adult level and one

with high school students. Farm management being a vital concern in agriculture today makes this topic very appropriate for consideration. Another study dealt with characteristics of youth with special needs in Ohio high schools, and the availability of vocational courses for them. These studies are believed to offer appreciable influence in the strengthening of vocational curriculum.

## Development of Professional Staff

All R.C.U. professional staff members continued to improve their understanding of research activities. They frequently attended local and state seminars and meetings. Work was completed in research design and statistical methods in an attempt to improve efficiency and effectiveness in performing R.C.U. functions. One member of the staff participated in a week-long research conference sponsored by the State Department of Education.

Two members of the staff attended national research conferences. The Director and/or the Research Associate participated in meetings in Nebraska, Ohio, Washington, D. C., Colorado and Chicago.

A continuous effort was launched by all professional staff members to keep informed of recent developments in vocational education. This objective has been accomplished by attending meetings, individual and group conferences, and reviewing the literature.

## Coordination

A major function of the Ohio Unit has been in coordinating vocational education activities. This work has been carried out both in the national and state levels. Considerable time has been expended in corresponding with other research coordinating units, state departments of education, universities, and local school districts in answering questionnaires, letters,

inquiries and requests for information and materials. The Unit has worked with the Director of Research of the State Department of Education, The National Center for Vocational and Technical Education and the various services of vocational education in identifying current projects and areas of concern in vocational education. These efforts have proven fruitful in focusing upon needs for improvement and extension of the total program.

Leaders in vocational education have been most perceptive in cooperating with the Ohio R.C.U. They have participated in several of the Unit activities by taking an active part in reviewing the research needs, potential and accomplishments with Unit staff members. The location of Unit facilities and personnel within the Department of Agricultural Education has enhanced opportunities and effectiveness of the Unit in working with Agricultural Education leaders.

# QUARTERLY REPORTS

## REPORT FORMAT

All Research Coordinating Unit Activities are placed in one of two major divisions*, namely: UNIT ORGANIZATION AND DEVELOPMENT or PROGRAM ACTIVITIES AND/OR ACCOMPLISHMENTS. Thereafter, the activities are categorized in the tabulations on the right under Development and Research as to (1) sub-divisions I, II or III of the major divisions and (2) the functions** of: Stimulation, Coordination, Facilitation, and Dissemination which encompass the Broad Objectives of Research Coordinating Units as identified by the Division of Adult and Vocational Research of the United States Department of Health, Education and Welfare.

*

UNIT ORGANIZATION AND DEVELOPMENT

I. Administration
   - -RCU Establishment
   - -Promotion of Vocational Education
   - -RCU Image Development

II. Staff Technical Development

PROGRAM ACTIVITIES AND/OR ACCOMPLISHMENTS

1. Employment Opportunities and Skills Identification

II. Human Resource Development

III. Educational Resource Development

**

RESEARCH COORDINATING UNIT FUNCTIONS[1]

STIMULATE
- -Atomosphere for research within the state
- -Research projects, ideas and understanding
- -RCU's role as research consultants
- -Long range research planning
- -Research seminars and conferences through RCU leadership
- -Identification of:
  - -training needs
  - -personnel
  - -issues and problems

COORDINATE
- -Research efforts in occupational education with:
  - -State and non-profit educational agencies
  - -other State governmental agencies
  - -professional groups
  - -other R & D Centers and the U. S. Office

FACILITATE
- -Information gathering
- -Functions enumerated under the other three headings insofar as resources permit

DISSEMINATE
- -Research information, projects and findings

[1]The functions are weighted by approximation as follows:
1 = 1/4 total time
2 = 1/2 total time
3 = 3/4 total time
4 = full time

First Quarter
Ohio Research and Development
Coordinating Unit in
Occupational Education

## UNIT ADMINISTRATION AND DEVELOPMENT

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Stimulate | Coordinate | Facilitate | Disseminate | Stimulate | Coordinate | Facilitate | Disseminate |
| --Studied Ohio Research Coordinating Unit proposal to and contract with the United States Office of Education | I 0 | 0 | 4 | 0 | | | | |
| --Studied Ohio State Department of Education, Division of Vocational Education, contract with the three departments of the Ohio State University relative to the Research Coordinating Unit | I 0 | 2 | 2 | 0 | | | | |
| --Prepared a list of activities for Ohio R.C.U. participation | I 1 | 1 | 1 | 1 | | | | |
| --Studied procedure of employment, records, and office adjustment | I 0 | 0 | 4 | 0 | | | | |
| --Established a filing system | I 0 | 0 | 4 | 0 | | | | |
| --Participated in Ohio Superintendents conference | I 1 | 1 | 1 | 1 | | | | |
| --Participated in regional meeting of Ohio teachers | I 1 | 1 | 1 | 1 | | | | |
| --Participated in State Vocational Advisory Committee meeting | I 0 | 0 | 0 | 4 | | | | |
| --Visited organizations and agencies, including Ohio Unemployment Service, involved in related research and established communications | I 0 | 2 | 2 | 0 | | | | |
| --Organized office | I 1 | 1 | 2 | 0 | | | | |
| --Delineated operation procedure | I 1 | 1 | 2 | 0 | | | | |
| --Employed secretary | I 0 | 2 | 2 | 0 | | | | |
| --Counseled with representatives of I.B.M., Monroe, and Frieden regarding lease of electronic calculators | I 1 | 1 | 2 | 0 | | | | |
| --Arranged for development and printing of quarterly brochure entitled, "R.C.U. Notes" | I 0 | 1 | 3 | 0 | | | | |
| --Presented R.C.U.'s purpose and functions, and the preparation of research proposals to vocational educators of Southwestern Franklin County | I 1 | 0 | 0 | 3 | | | | |
| Total number of weighted involvements by function | 7 | 13 | 30 | 10 | | | | |

The initial establishment of the Unit is reflected in effort expended on the function of facilitating its organization. Proportionately, about half as much effort was expended on each of the functions of coordination and dissemination during that period. While stimulation received the least total effort during the first quarter, the clientele to which it was directed was considered vital to program projections.

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Prepared a tentative list of duties and responsibilities for the staff of Ohio R.C.U. | II 0 | 1 | 3 | 0 | | | | |
| --Searched for professional and non-professional personnel | II 0 | 0 | 4 | 0 | | | | |
| --Made search for sources of information and established resource files | | | | | II 0 | 0 | 4 | 0 |
| --Studied printed materials including the guidelines governing research proposals and grants by the United States Office of Education | II 0 | 0 | 4 | 0 | | | | |
| --Attended America Vocational Association Convention | II 0 | 0 | 4 | 0 | | | | |
| --Made application for admission to National seminar | II 1 | 1 | 2 | 0 | | | | |
| --Attended National Interdisciplinary Seminar on Occupational Guidance in Vocational Education | II 1 | 1 | 2 | 0 | | | | |
| --Attended National Seminar on Development and Coordination of Research | II 1 | 1 | 2 | 0 | | | | |
| --Initiated an in-service training program for the evaluation of proposals to upgrade technical performance of review and assistance to initiators of proposals | II 2 | 1 | 1 | 0 | | | | |
| --Participated in the National Seminar for R.C.U. personnel at The Ohio State University | II 0 | 0 | 0 | 4 | | | | |
| --Presented R.C.U.'s role and functions as well as the preparation of research proposals to graduate students of the Department of Agricultural Education | II 0 | 0 | 0 | 4 | | | | |
| --Participated in seminar of orientation to the Ohio State University's CR 600 Computer | II 0 | 0 | 0 | 4 | | | | |
| --Attended Regional Conference of Vocational Agriculture teacher trainers and supervisors in Chicago dealing with "Implementing the Vocational Act of 1963" | II 1 | 1 | 0 | 2 | | | | |

--Cooperatively determined with The Ohio State University Research Foundation guidelines and procedures for research proposals being initiated at The Ohio State University under the new ruling on participation in cost sharing of research supported by federal grants

--Prepared a tentative list of areas of concern for the Ohio R.C.U.

--Prepared a list of functions for the Ohio R.C.U.

Total number of weighted involvements by function

Total number of weighted involvements by function for Unit Administration and Development

| DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|
| S | C | F | D | S | C | F | D |
| II 1 | 1 | 1 | 1 | | | | |
| I 0 | II 1 | 3 | 0 | | | | |
| I 0 | II 1 | 3 | 0 | | | | |
| 7 | 9 | 29 | 15 | 0 | 0 | 4 | 0 |
| 14 | 22 | 59 | 25 | 0 | 0 | 4 | 0 |

Staff technical development was initiated on a broad base and included all personnel. Personnel recruitment and the purusal of materials pursuant to R.C.U.'s primarily account for the relatively large amount of facilitating effort. The relatively high disseminative effort reflects perceived contributions by the personnel to seminars attended.

ACTIVITIES AND/OR ACCOMPLISHMENTS

--"Skills, Knowledge, and Experience Required for Gainful Employment in Agriculture Occupations Other Than Farming in the Area of Agriculture Mechanics." Initiator: Thomas R. Stitt, Teaching Assistant, Department of Agricultural Education, The Ohio State University

--"A Comparative Study of the Employee/Training Acceptable to Employers Under Varying Degrees by Labor-Market Stringencies." Initiator: Dr. George W. James, Department of Economics and Information Research, Basic-Economics Section, Battelle Memorial Institute

--Robert W. White, Resident Assistant, Department of Agricultural Education, The Ohio State University, "Occupational Opportunities and Educational Needs for Horticulture Technicians in Ohio."

Total number of weighted involvements by function

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| S | C | F | D | S | C | F | D |
| | | | | I 4 | 0 | 0 | 0 |
| | | | | I 0 | 0 | 4 | 0 |
| | | | | I 4 | 0 | 0 | 0 |
| | | | | 8 | 0 | 4 | 0 |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Conferred with Division of Guidance and Testing, Ohio State Department of Education, on a research project concerning a student vocational interest inventory | | | | | II 1 | 1 | 1 | 1 |
| --Reviewed a research proposal, "The Predictive Value of Student Commitment for Vocational and Technical Schools," to be submitted to the United States Office of Education for approval and funding by Dr. Ivan R. McGregor, Financial Vice President, Akron University, Akron, Ohio, with the principal investigator, Edwin L. Lively, Professor of Sociology, and sent recommendations concerning same to them | | | | | II 0 | 1 | 2 | 1 |
| Total number of weighted involvements by function | | | | | 1 | 2 | 3 | 2 |
| --Assisted supervisor of building construction in building plans | III 0 | 0 | 3 | 1 | | | | |
| --Held conference with United States Office of Education visiting member | III 0 | 1 | 2 | 1 | | | | |
| --Made field trip in Ohio with United States Office of Education visiting member | III 0 | 1 | 2 | 1 | | | | |
| --Reviewed a research proposal, "An Experimental Program in the Training of Vocational Counselors," to be submitted to the United States Office of Education for approval and funding by Dr. Charles Nichols and Dr. D. L. Arnold of Kent State University, Kent, Ohio, and sent recommendations concerning same to Dr. Nichols | | | | | III 0 | 1 | 2 | 1 |
| --Assisted in preparing one-year work shop internship with Kent State University to prepare vocational supervisors and directors | III 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| --Prepared program recommendations for Trade and Industrial Education Services for community survey | III 0 | 0 | 3 | 1 | | | | |
| --Synthesized the procedures for conducting a community vocational survey | III 1 | 1 | 1 | 1 | | | | |
| --Prepared Community Vocational Study Report for establishing a joint vocational school in Trumbull County | III 1 | 1 | 1 | 1 | | | | |
| --Prepared Community Vocational Study Report for establishing a joint vocational school in Butler County work force area | III 1 | 1 | 1 | 1 | | | | |
| --Prepared Community Vocational Study Report for establishing a joint vocational school in Marion County work force area | III 1 | 1 | 1 | 1 | | | | |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Completed a Master Plan of joint vocational schools for the State of Ohio (57 schools) giving pupil enrollment, school district areas, per pupil cost for capital, outlay and operation, and total cost of construction and operation from eight illustrative vocational schools which took into consideration vocational programs for each vocational field; number of programs; grade levels; pupil capacities; number of shops, laboratories, related and academic class rooms; floor area requirements for each instructional facility; site area; vocational and academic personnel; building, equipment, and site costs; architects fees; contingencies; and operating cost; a plan of action for establishing a joint vocational school; and a plan of financing the construction and operation of the school | III 1 | 1 | 1 | 1 | | | | |
| --Analyzed trade and industrial education system of approving, funding, and reporting teacher personnel and instructional programs; eliminated duplication and nonfunctioning items; designed data processing forms for personnel and instructional programs; wrote instructions for use. (Opening reports have been filed by school. Closing reports will be made out at end of year.) Now programing for following State reports, "Trade and Industrial Education by Program Type by City, Trade and Industrial Education by Program Type by Occupational Code No." and Federal reports | III 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |
| --Studied State reimbursement pattern for home economics and reports for conversion to data processing forms and equipment | III 0 | 1 | 2 | 1 | | | | |
| --Studied the implication of a new law which requires that a pupil must receive an adequate vocational preparation before dropping out of school and that all public school districts must offer an adequate vocational education program by analyzing several proposals of "an adequate vocational education" for some 50 school systems in Ohio and by comparing to present programs | III 0 | 1 | 2 | 1 | | | | |
| --Initiated conference with The Ohio State University Departments of Economics, Agricultural Education, and The Center of Vocational and Technical Education designed to investigate what, how, and when to teach economics to vocational agriculture at the high school level | III 1 | 1 | 1 | 1 | | | | |
| --Participated in conference of Departments of Agricultural Education, Agricultural Economics, and Rural Sociology pursuant to validating "7 Profit Maximizing Principles" for use as a base in the development of a research proposal | | | | | III 2 | 2 | 0 | 0 |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Max Amerson (John Deere Fellor), The Center of Vocational and Technical Education, "Vocational Offerings for Small Schools" | | | | | III 4 | 0 | 0 | 0 |
| --Cooperated with The Center of Vocational and Technical Education, Department of Agricultural Education, The Ohio State University, in Chicago by securing information and materials from Mr. James McGuire, Graduate Student of Purdue University, regarding "The Teaching of Basic Economic Principles to Secondary School Students of Vocational Agriculture" | III 2 | 0 | 1 | 1 | | | | |
| --Evaluated the following tentative research proposal: "Development of Instructional Units for Teaching Basic Profit Minimizing Principles in Vocational Agriculture" Initiator: Richard L. Barker, Graduate Assistant, Department of Agricultural Education, The Ohio State University | | | | | III 4 | 0 | 0 | 0 |
| --Evaluated the following completed research proposal: "A Comparative Analysis and Evaluation of a Programmed Laboratory for Shortland Instruction" Initiator: Dr. A. E. Miske, Department of Associated Programs, The University of Akron | | | | | III 0 | 0 | 4 | 0 |
| Total number of weighted involvements by function | 9 | 12 | 23 | 14 | 11 | 3 | 7 | 1 |
| --Participated in Ohio Apprenticeship three-day conference | I I 1 | II 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| --Designed a Community Vocational Study Report consisting of Part I, Preliminaries. Part II, Test: Introduction and nine chapters. Summary: basic county, state, and national information on pertinent demographic, financial, and employment aspects; student vocational interest inventory; local survey findings and recommended vocational programs for each--agricultural education; business education; distributive education, home economics education, and trade and industrial education: and recommended physical facilities which has taken into consideration vocational programs for each vocational field: number of programs; grade levels; pupil capacities; number of shops, laboratories, related and academic class rooms; floor areas required for each instructional facility; site area; vocational and academic personnel; building, equipment, and site costs; architects fees; contingencies; and operating costs; a plan of action for establishing a joint vocational school; and a plan of financing the construction and operation of the school | I I 0 | II 1 | 2 | 1 | | | | |
| --Participated in school surveys | I I 1 | II 1 | 1 | 1 | | | | |
| Total number of weighted involvements by function | 2 | 2 | 3 | 3 | 1 | 0 | 0 | 1 |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Conferred with Dr. Herman J. Peters, Professor of Education, and Thomas C. Froehle, Research Associate, The Ohio State University, on research project, "Vocational Education and Vocational Counseling and Secondary Schools" | | | | | II 0 | III 1 | 2 | 1 |
| --Reviewed the following tentative research proposal: "Vocational Education and Vocational Counseling in Secondary Schools: Research on Counselor Orientation. Its Effect and Modification Through Training" Initiators: Dr. Herman J. Peters, Professor of Education, and Thomas C. Froehle, Graduate Assistant, The Ohio State University | | | | | II 3 | III 0 | 1 | 0 |
| --Counseled the following on preparing potential proposals for funding: James B. Hamilton, Resident Assistant, Department of Agricultural Education, The Ohio State University, "Characteristics of Youth With Special Needs in Rural High Schools in the State of Ohio and the Availability of Special Courses and Services to Meet Their Needs" | | | | | II 4 | III 0 | 0 | 0 |
| Total number of weighted involvements by function | | | | | 7 | 1 | 3 | 1 |
| --Participated in the Division of Vocational Education staff meetings | I 1 | II 1 | III 1 | 1 | | | | |
| --Participated in the Division of Vocational Education two-day conference | I 1 | II 1 | III 1 | 1 | | | | |
| --Answered questions and assisted, informed, and advised superintendent of schools and directors of vocational education, boards of education and lay committees, and general public at meeting on vocational education problems | I 1 | II 1 | III 1 | 1 | | | | |
| --Answered questionnaires, requests, letters, inquiries for Division of Vocational Education | | | | | I 0 | II 0 | III 2 | 2 |
| --Prepared statistical material for Division of Vocational Education annual report to United States Office of Education | I 0 | II 0 | III 0 | 2 | 0 | 0 | 2 | 0 |
| --Initiated conferences to determine ideas and needs of agricultural education as envisioned by: | | | | | | | | |
| 1. The Center of Vocational and Technical Education | 2 | 1 | 1 | 0 | | | | |
| 2. Department of Agricultural Education | 1 | 2 | 1 | 0 | | | | |
| 3. State Vocational Agricultural Supervisors | 2 | 1 | 1 | 0 | | | | |
| | I | II | III | | | | | |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Initiated conference with Home Economics Department of The Ohio State University pursuant to research ideas and needs | I<br>3 | II<br>1 | III<br>0 | 0 | | | | |
| --Developed Unified Criteria for the Evaluation of all Federal IV(c) Research Proposals | I<br>1 | II<br>1 | III<br>1 | 1 | | | | |
| --Developed Federal-State Evaluation Forms for Research Proposals | I<br>1 | II<br>1 | III<br>1 | 1 | | | | |
| Total number of weighted involvements by function | 13 | 10 | 8 | 7 | 0 | 0 | 4 | 2 |
| Total number of weighted involvements by function for Activities and/or Accomplishments | 28 | 24 | 34 | 24 | 28 | 6 | 21 | 7 |
| Grand Total number of weighted involvements by function for First Quarter | 38 | 46 | 93 | 49 | 28 | 6 | 25 | 7 |

The major thrusts in the development of program during the first quarter were: (1) the completion of a master plan for 57 joint vocational schools for the 11th and 12th year student and (2) the initiation of design of a data processing system for approving and reimbursing programs as well as for Federal and State Department of Education reporting. The area of Educational Resource Development received greatest attention and was basically facilitating in function. Other developmental activities provided balance to the total effort.

Research per se indicated a more equal involvement between the three major areas of program activity than did developmental activities. However, the effort expended was principally that of stimulation. It was also apparent that many of the efforts encompassed two or more of the listed areas.

In summary, the analysis of the first quarter evidences greater development than research activity in both unit organization and program activities. The scale of the facilitating function reflects the physical establishment of the Unit while other functions show a good balance of endeavor coupled with two activities of major importance to the State. Although there was less effort applied to research as a

result of Unit establishment, two important functions were stressed. They were to stimulate research ideas and endeavors and to facilitate the review of proposals in the final stages of preparation.

Second Quarter
Ohio Research and Development
Coordinating Unit in
Occupational Education

## UNIT ADMINISTRATION AND DEVELOPMENT

--Formulated mailing list for: (1) Vocational Teacher Educators by specialty areas, (2) State Vocational Supervisors and their assistants, and (3) Vocational and Technical Directors of large high schools including joint vocational schools

--Counseled with Dr. Edward E. Darrow, Assistant Dean-Finances, pursuant to financial structure of contract between The State Department of Education and The Ohio State University

--Represented Ohio R.C.U. at banquet of the State of Ohio Association, The Future Farmers of America

--Developed format for Preliminary Guidelines for Ohio R.C.U. policy

--Finalized Rental Contract for Frieden Electronic Calculator

--Designed an evaluation format and procedure to be used by this R.C.U. to appraise its research and development effort in occupational education

--Prepared compendium of Unit activities for the Department of Agricultural Education Annual Report 1965-66

--Developed longitudinal tabulation forms for reviewed proposals

--Addressed workshop of secondary school counselors at the University of Cincinnati on "Research in Vocational Education"

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Stimulate | Coordinate | Facilitate | Disseminate | Stimulate | Coordinate | Facilitate | Disseminate |
| | I0 | 0 | 4 | 0 | | | | |
| | I1 | 2 | 1 | 0 | | | | |
| | I2 | 0 | 0 | 2 | | | | |
| | I0 | 0 | 4 | 0 | | | | |
| | I0 | 0 | 4 | 0 | | | | |
| | I0 | 0 | 0 | 4 | | | | |
| | I0 | 1 | 3 | 0 | | | | |
| | I1 | 0 | 0 | 3 | | | | |
| Total number of weighted involvements by function | 4 | 3 | 20 | 9 | | | | |

Second quarter data indicates a wide breadth of administrative activity. These were primarily facilitation functions which provided a basis for increased administrative efforts within the other functional areas.

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Continued search for resources on demographic, financial and employment information relative to vocational education planning | | | | | II 0 | 0 | 4 | 0 |
| --Attended staff meetings of Teacher Trainers and Supervisors of Vocational Agriculture Education, The Ohio State University | II 1 | 1 | 1 | 1 | | | | |
| --Participated in conference on meeting the needs for Research Technicians with Dr. Ralph Bender, Chairman, Department of Agricultural Education, The Ohio State University, and Dr. Robert Taylor, Director, The Center for Vocational and Technical Education, The Ohio State University | II 1 | 2 | 1 | 0 | | | | |
| --Familiarization conference with United States Office of Education personnel in Washington, D. C. | II 1 | 2 | 0 | 1 | | | | |
| --Interviewed personnel, professional and secretarial | II 0 | 0 | 4 | 0 | | | | |
| --Served as program chairman of Vocational Education Section of the Ohio State Department of Education In-service Staff workshop | | | | | II 4 | 0 | 0 | 0 |
| --Attended the two day in-service educational program for personnel of the State of Ohio Department of Education | II 1 | 1 | 0 | 2 | | | | |
| Total number of weighted involvements by function | 4 | 6 | 6 | 4 | 4 | 0 | 4 | 0 |
| Total number of weighted involvements by function for Unit Administration and Development | 8 | 9 | 26 | 13 | 4 | 0 | 4 | 0 |

Continued in-service training effort for the period shows a balance of effort by function. Two activities were particularly important to staff development. First was the contribution of the search for resource information on demographic, financial, and employment information of the State and, secondly, was the familiarization conferences with the United States Office of Education personnel in Washington.

ACTIVITIES AND/OR ACCOMPLISHMENTS

No activity was confined to employment opportunity or skills identification, but such activities were found to be a part of a large number of activities which included all three areas of concern.

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Attended conference on Occupational Work Experience. The purpose was to explore O.W.E. in light of (1) what has and is being done, (2) current thoughts, and (3) examined what concensus exists between the five vocational subject areas within the Division of Vocational Education | II 1 | 2 | 0 | 1 | | | | |
| --Assisted Mr. Richard Rice, Project Director and Consultant, The Center for Vocational and Technical Education, The Ohio State University, in securing a further reliability test on an instrument (questionnaire) for a study in supervision | | | | | II 1 | 1 | 2 | 0 |
| --Assisted in arrangement of conference between Dr. Barbara Kemp of the U.S.Q.E. and personnel of the Dayton City Schools pursuant to development and submittal of a proposal "An Experimental Laboratory for Occupational Work Experience Program" | | | | | II 2 | 0 | 2 | 0 |
| --Participated in several conferences on disadvantaged youth with Dr. Barbara Kemp | | | | | II 2 | 0 | 1 | 1 |
| Total number of weighted involvements by function | 1 | 2 | 0 | 1 | 5 | 1 | 5 | 1 |

Effort expended on human resource development was concentrated on the functions of stimulation of developing inter-service coordination for research in O.W.E. programs and the facilitation of conferences pursuant to the problems of youth with special needs.

| | S | C | F | D | S | C | F | D |
|---|---|---|---|---|---|---|---|---|
| --Participated in the dedication of a new area vocational school in Lancaster, Ohio | III 1 | 0 | 2 | 1 | | | | |
| --Assisted the Lawrence County Superintendent of Schools and Advisory Committee in preparing a proposal for a joint vocational school district to be submitted to the State Board of Education for approval and construction of a vocational school to accommodate 900 pupils | III 1 | 1 | 2 | 0 | | | | |
| --Prepared the community vocational survey report for establishing a joint vocational school in the Medina labor force area and presented same to school officials and boards of education | III 1 | 1 | 1 | 1 | | | | |
| --Participated in conferences pertaining to the development and evaluation of Instructional Units in Teaching Profit-Maximizing Principles in Vocational Agriculture | | | | | III 2 | 1 | 0 | 1 |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Participant in National "Seminar on Basic Principles in Agricultural Education", The Center for Vocational and Technical Education, The Ohio State University | III 1 | 2 | 0 | 1 | | | | |
| --Prepared estimated building and equipment costs for joint vocational schools for 1966-67 | III 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| --Responded to inquiry from Dr. Lowery H. Davis, Chairman, Department of Agricultural Education, Clemson Agricultural College, Clemson, South Carolina, through The Center pursuant to the proposal for funding of the Ohio R.C.U. | III 0 | 0 | 0 | 4 | | | | |
| --Completed questionnaire from Utah R.C.U. pursuant to "Research Ramblings", a dissemination newsletter | III 0 | 0 | 2 | 2 | | | | |
| --Conferences with Dr. Edwin C. Novak, The Ohio State University Research Foundation pursuant to: | | | | | | | | |
| (1) Richard Barker's small grant proposal on Economic Principles | | | | | III 0 | 2 | 2 | 0 |
| (2) Herman J. Peters and Thomas C. Froehle proposal on Vocational Counseling | | | | | 0 | 3 | 1 | 0 |
| (3) Exploring a potential proposal on "Methodology in Teacher Training for Agricultural Education" | | | | | 1 | 2 | 1 | 0 |
| --Evaluated, endorsed, and forwarded small grant proposal entitled, "Development and Evaluation of Instructional Units for Teaching Profit-Maximizing Principles in Vocational Agriculture" of Richard L. Barker, Graduate Student, Department of Agriculture, The Ohio State University | | | | | III 0 | 0 | 4 | 0 |
| --Conference with Dr. Robert Taylor, The Center for Vocational and Technical Education, pursuant to proposals for international involvement as proposed by new legislation and/or revised priorities of established agencies | | | | | III 3 | 1 | 0 | 0 |
| --Consultations with Dr. Patrick T. Cleaver, Professor, Department of Sociology, The Ohio State University, pursuant to the use of statistical analysis to be employed in the design of a potential project | | | | | III 0 | 4 | 0 | 0 |
| --Designed an investigational effort to determine norms of understanding of economic principles for farmers enrolled in the analysis phase of farm management instruction | | | | | III 0 | 0 | 4 | 0 |
| --Reviewed a potential experimental training proposal entitled, "Aero-Space Ground Engineering Technician" by Mr. Dewey C. Hale, Assistant Director, Columbus Area Technician School | | | | | III 1 | 2 | 1 | 0 |

DEVELOPMENT & RESEARCH

| | S | C | F | D | S | C | F | D |
|---|---|---|---|---|---|---|---|---|
| --Consultations with Dr. Ray Bailey, Professor, Department of Agricultural Economics, pursuant to evaluative design for measuring the economic progress of farmers in development programs | III 0 | 4 | 0 | 0 | | | | |
| --Conference with Drs. Ralph Bender and Ralph Woodin pursuant to the design, facilitation, and dissemination of "Facts on Farming" for use as a vocational education programing guide | | | | | III 1 | 1 | 2 | 0 |
| --Consulted with Dr. Byrl Shoemaker, State Director of Vocational Education; Dr. Herb Brum, State Supervisor, Disadvantaged Youth and Work-Study Programs; and personnel of the Dayton Public Schools (Bode and Scherer) relative to redesigning and submittal of proposal entitled, "Comprehensive High School Occupational Work Experience Program" | | | | | III 1 | 1 | 0 | 2 |
| --Prepared the community vocational survey report for establishing a joint vocational school in the Mahoning County labor force area | III 1 | 1 | 1 | 1 | | | | |
| --Assisted the Marion County Superintendent of Schools and Advisory Committee in preparing a proposal for a joint vocational school district to be submitted to the State Board of Education for approval and construction of a vocational school | III 1 | 1 | 2 | 0 | | | | |
| --Assisted the Trumbull County Superintendent of Schools and Advisory Committee in preparing a proposal for a joint vocational school district to be submitted to the State Board of Education for approval and construction of a vocational school to accommodate 1935 pupils | III 1 | 1 | 2 | 0 | | | | |
| --Served as vocational education staff member to review 48 project proposals under Title III, Elementary and Secondary Act | III 0 | 0 | 4 | 0 | | | | |
| --Assisted in the design development of a study entitled, "The relation of Instruction in Farm Management to Selected Ohio Farmer's Economic Efficiency and Understanding of Economic Principles" | | | | | III 0 | 1 | 3 | 0 |
| --Reviewed and endorsed a cooperative interstate IV(c) proposal (Master and Part C) entitled, "The Efficacy of Home Economics Courses Designed to Prepare Disadvantaged Pupils for their Homemaker-Family Member Role and the Dual Roles of Homemaker and Wage Earner", initiated by Dr. Mary Haas, Associate Professor, Home Economics Education, The Ohio State University | | | | | III 0 | 0 | 4 | 0 |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Assisted in the design and compulation of the proposal the "Continuation of an Occupational Research and Development Coordinating Unit of the Division of Vocational Education of the Department of Education, State of Ohio" | III 1 | 2 | 1 | 0 | | | | |
| --Counseled with Margaret Cantrell, Assistant Professor and Director, Nursery School, Department of Home Economics, Miami University, regarding a potential IV(c) proposal for an experimental training program on child care | | | | | III 2 | 0 | 0 | 2 |
| --Counseled with Dr. Edwin L. Lively, Professor of Social Education, University of Akron, relative to (1) the selection of out-of-state schools for use in a project presently being negotiated with the United States Office of Education and (2) the recommendation of two consultants for the project | | | | | III 0 | 0 | 4 | 0 |
| Total number of weighted involvements by function | 8 | 14 | 18 | 11 | 12 | 18 | 26 | 5 |

Educational resource development received the greatest attention by the Unit. Moreover, the effort expended was rather equally divided between development and research. Activities involving this area of concern showed a decided increase in effort for the function of coordination.

| | S | C | F | D | S | C | F | D |
|---|---|---|---|---|---|---|---|---|
| --Presented the joint vocational school and the nature and place of vocational education in the State School System to community leaders in Muskingum County | I II I III 0 | 0 | 0 | 4 | | | | |
| --Presented the community vocational school report for establishing a joint vocational school district in the Butler County work force area to school officials, boards of education, and lay community leaders at a survey dinner meeting | I II I III 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| --Presented the master plan for joint vocational school districts for the State of Ohio to the vocational advisory committee | I II I III 0 | 0 | 0 | 4 | | | | |
| --Participated in the Division of Vocational Education Staff meetings | I II I III 1 | 1 | 1 | 1 | | | | |
| --Advised public school administrators on problems related to vocational education programs and joint vocational schools | I II I III 1 | 1 | 1 | 1 | | | | |

DEVELOPMENT & RESEARCH

| | S | C | F | D | S | C | F | D |
|---|---|---|---|---|---|---|---|---|
| --Answered questionnaires, letters, inquiries, and requests for information and materials for the Division of Vocational Education | | | | | I II III<br>0 | 0 | 2 | 2 |
| --Consultations with Dr. Desmond Cook, Professor, School of Education, The Ohio State University, pursuant to PERT Programing | | | | | I II III<br>0 | 4 | 0 | 0 |
| --Responded to inquiry for R.C.U. research proposal materials from Dr. James E. Christianson, Agriculture and Extension Education, College of Education, University of Florida, Gainesville, Florida | I II III<br>0 | 0 | 4 | 0 | | | | |
| --Participated in Governor's Conference on Technical Education | I II III<br>1 | 1 | 1 | 1 | | | | |
| --Represented vocational education at a combined meeting of the State Legislative Education Committee and State Board of Education on school organization for the State of Ohio | I II III<br>0 | 0 | 0 | 4 | | | | |
| --Participated in a United States Office of Education Ad Hoc Committee on the Taxonomy of Trade and Industrial Education and prepared descriptions for three areas of training for same | I II III<br>0 | 0 | 4 | 0 | | | | |
| --Consulted with Dr. D. R. Purdy, Project Director of the Master Plan for School District Organization for the State of Ohio, and various members of his staff. Prepared the following reports: (a) Programs Illustrative of Vocational Offerings in Joint Vocational Schools by Size (b) The Purposes and Scope of Vocational Subject Matter Areas in the State of Ohio (c) The Vocational School and the Intermediate School District - maximum and optimum enrollment for vocational schools (d) assisted in the preparation of the Seven Guide Lines for Establishing of Joint Vocational School Districts | I II III<br>1 | 0 | 1 | 2 | | | | |
| --Presented vocational education to school executives, boards of education, and lay groups explaining vocational education, the joint vocational school, and research on the nature and place of vocational education in the total education pattern | I II III<br>1 | 1 | 1 | 1 | | | | |
| --Initiated conferences between The Center for Vocational and Technical Education (Drs. Taylor and Hensil), the Department of Agricultural Education, The Ohio State University (Drs. Ralph Bender and Floyd McCormick) and the R.C.U. relative to the support of the development of a Taxonomy of Scientific Principles directed to Vocational Education Behavior | I II III<br>2 | 1 | 1 | 0 | | | | |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Committee participant in a comprehensive review and planning of research in the Department of Agricultural Education, The Ohio State University | I 1 | II 1 | III 1 | 1 | | | | |
| --Consulted with Mr. R. O. Brinkman, Superintendent, Springfield and Clark County Vocational and Technical School, and Mr. A. C. Woedle, Director of Technical Education, pursuant to the implementation of potential research proposals | I 2 | II 0 | III 1 | 1 | | | | |
| --Prepared Projected Program Activities with Estimate of Total Expenditures for Vocational Education - Fiscal Year 1967 for Division of Vocational Education Report to United States Office of Education | I 1 | II 1 | III 1 | 1 | | | | |
| --Appeared on programs with Dr. D. R. Purdy, Project Director of the Master Plan for School District Organization for the State of Ohio, presenting school districts organization for vocational and technical education | I 1 | II 1 | III 1 | 1 | | | | |
| --Spoke to in-service workshop for vocational automotive teachers conducted jointly by the Division of Vocational Education and General Motors Corporation | I 2 | II 0 | III 0 | 2 | | | | |
| --Attended two day meeting at United States Office of Education on VEIS | I 0 | II 0 | III 4 | 0 | | | | |
| --Prepared and published "R.C.U. Notes" Vol. I, No. 1, March 1966 and Vol. I, No. 2, June 1966 | I 0 | II 0 | III 2 | 0 | | | | |
| --Attended the National Seminar on "Evaluation and Planning in Vocational Agriculture" | I 1 | II 2 | III 0 | 1 | | | | |
| --Participated in the Appalachia Regional Educational Laboratory Conference representing vocational education | II 1 | III 1 | 1 | 1 | | | | |
| --Participated on a committee that selected the members for the one-year experimental "Leadership Development Program" at Kent State University funded by the Division of Vocational Education | II 0 | III 0 | 4 | 0 | | | | |
| --Counseled with and reviewed proposal entitled, "The Development and Demonstration of a Program for Locating Personnel for Distributive Education Teacher Coordinating Positions" by Dr. William Logan, Professor and Director Distributive Education, The Ohio State University | II | III | | | II 0 | III 1 | 2 | 1 |
| Total number of weighted involvements by function | 17 | 12 | 30 | 18 | 0 | 5 | 2 | 4 |

DEVELOPMENT & RESEARCH

| | S | C | F | D | S | C | F | D |
|---|---|---|---|---|---|---|---|---|
| Total number of weighted involvements by function for Activities and/or Accomplishments | 26 | 28 | 49 | 38 | 17 | 24 | 35 | 10 |
| Grand Total number of weighted involvements by function for Second Quarter | 34 | 37 | 74 | 51 | 21 | 24 | 39 | 10 |

Activities involving more than one of the major areas of program concern are shown to be basically developmental, wherein the function of dissemination effort was nearly equal to that of facilitation. Three activities were deemed particularly significant in expanding the scope of vocational education in Ohio. These were: (1) the preparation and dissemination of vocational programing information for master planning of school districts, (2) the comprehensive review and long range planning of research in vocational agriculture, and (3) the publication of "R.C.U. Notes" as a disseminative and stimulative technique for development and research activities in occupational education.

In the aggregate the Unit's effort during the second quarter indicates a decided increase and a more desirable balance between development and research effort. Nevertheless, the facilitation function was again high relative to the other functional areas in both development and research endeavors. Considerable developmental effort was focused on assisting the Division of Vocational Education in the design, study, and dissemination of planning data to boards of education and lay community leaders. The intent of the foregoing activities was to stimulate the organization and establishment of joint vocational school districts in Ohio. These endeavors are becoming significant as evidenced by the increased number of jointures, from 3 to

The increased effort expended on research was primarily the result of previous stimulative effort by the Unit. During this period, fourteen research endeavors were provided substantial assistance. A major supportive effort by the Unit facilitated the compulation of a basic resource publication entitled, "Facts on Farming" for use

by vocational educators in programing within rural areas.

Five project proposals were forwarded to the Bureau of Research for approval and funding. The others were retained by the initiators for refinements. Although the activities increased in scope and depth for this quarter, incomplete staffing appeared to have limited increased levels of the perceived expectances as established for this Unit.

Third Quarter
Ohio Research and Development
Coordinating Unit in
Occupational Education

## UNIT ADMINISTRATION AND DEVELOPMENT

--Relocated office and supplies within the Department of Agricultural Administration Building, The Ohio State University

--Participated in the combined staff meetings of vocational agriculture teacher trainers and supervisors at The Ohio State University

--Participated in conference with Mr. Clare Young, team member USAID/Brazil/OSU contract, Dr. Ralph Bender, and Dr. Richard Wilson regarding program and research design for potential involvement of the Department of Agricultural Education in structuring a vocational agricultural teacher training program at Firacicaba, Brazil

--Committee participant in a comprehensive review and planning of research in the Department of Agricultural Education, The Ohio State University

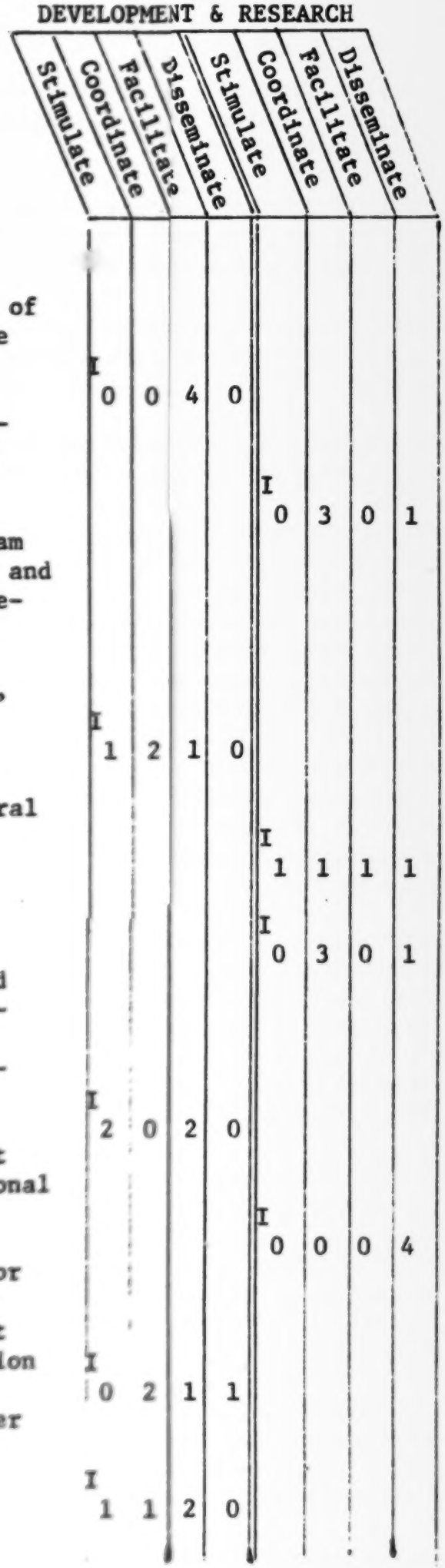
--Attended State Conference of Ohio Teachers of Vocational Agriculture at The Ohio State University

--Participated in conferences with Mr. C. O. Tower and Dr. Ralph Bender pursuant to sub-contract budget between the Division of Vocational Education, State Department of Education, and the Department of Agricultural Education, The Ohio State University

--Addressed workshop of secondary school counselors at the University of Cincinnati on "Research in Vocational Education"

--Prepared section, "The Research Coordination Unit for Occupational Education", for Dr. Byrl Shoemaker for inclusion in the Vocational Division's annual report for submittal to the United States Office of Education

--Conferences with Mr. John Rolloff and Mr. C. O. Tower pursuant to the purposes and progress of the Ohio Research Coordinating Unit



| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Familiarization conferences and studies of the design, purposes, objectives, policies, etc. of the Ohio Research Coordinating Unit | I 1 | 1 | 2 | 0 | | | | |
| --Participated in an orientation conference to initiate a project to develop a "Manual of Operation and Professional Services for the Ohio Research Coordinating Unit" | I 2 | 2 | 2 | 0 | | | | |
| --Gathered materials from other states relating to operational policies of research coordinating units in several states | I 0 | 0 | 3 | 1 | | | | |
| --Reviewed the structure and function of R.C.U.'s for Mr. Ricey Thomas, Inspector of Schools in Wales | I 0 | 0 | 0 | 4 | | | | |
| --Counseled with Mrs. Lenor Gordon, Title I specialist for the Elementary and Secondary Education Act in the Ohio State Education Department's Federal Assistance Division regarding review, funding, and evaluation of Title I vocational proposals including the desirability of communication channels between the vocational division services and the Research Coordinating Unit | I 1 | 1 | 1 | 1 | | | | |
| --Conferred with Miss Margaret McEniry, Supervisor Home Economics, pursuant to the Research Coordinating Unit's role in stimulating, coordinating, facilitating, and disseminating research and development activity in home economics | I 1 | 1 | 0 | 2 | | | | |
| --Participated in combined staff meetings of the Vocational Agriculture Section of the State Department of Education and the Teacher Training Staff, The Ohio State University, relative to program projections | I 1 | 1 | 1 | 1 | | | | |
| --Prepared "R.C.U. Notes" materials on the "Evaluation of IV(c) Proposals" | I 0 | 0 | 4 | 0 | | | | |
| --Developed an outline for a "Manual of Operation and Professional Services for the Ohio Research Coordinating Unit" | I 0 | 0 | 4 | 0 | | | | |
| --Assisted in writing the first draft of the "Manual of Operations" in preparation for review and revision by Mr. Tower | I 1 | 1 | 1 | 1 | | | | |
| --Consulted with the printing department of The Ohio State University and with the mimeograph department of the State Department of Education concerning publication of "R.C.U. Notes" | I 0 | 1 | 2 | 1 | | | | |
| --Assisted with vocational education promotional activities at The Ohio State Fair | I 1 | 1 | 1 | 1 | | | | |

DEVELOPMENT & RESEARCH

| | S | C | F | D | S | C | F | D |
|---|---|---|---|---|---|---|---|---|
| --Published "R.C.U. Notes" Vol. I, No. 3, September, 1966 | I 0 | 0 | 4 | 0 | | | | |
| --Participated in combined staff conference of Vocational Agriculture supervisors of the State Department and Teacher Educators of Agriculture at The Ohio State University relative to the implementation of five year plan | I 1 | 1 | 1 | 1 | | | | |
| --Consulted with Dr. Edward E. Darrow, Assistant Dean, Fiances, pursuant to Central Region Research Conference arrangements for August 1, 2, 3, 1967, including the installation of a telephone jack in the foyer of the Agriculture Auditorium | I 1 | 1 | 1 | 1 | | | | |
| --Organized the filing procedure for proposed and funded project grants as reported by Health, Education, and Welfare into categories of (1) Economic Opportunities, (2) Human Resources, and (3) Educational Resources | I 0 | 0 | 4 | 0 | | | | |
| --Participated in staff meetings of the Agricultural Education Department of The Ohio State University | I 1 | 1 | 1 | 1 | | | | |
| Total number of weighted involvements by function | 15 | 17 | 42 | 16 | 1 | 7 | 1 | 7 |

Administrative effort in the third quarter was focused on further promotion of vocational education and the role of the R.C.U. in fostering research and development efforts within Ohio through increased communications and functional activity between the Unit and a wider strata of persons and institutions. Specific attention was also placed on the initiation of a project to develop "A Manual of Operation and Professional Services for the Ohio Research Coordinating Unit."

| | S | C | F | D | S | C | F | D |
|---|---|---|---|---|---|---|---|---|
| --Counseled with Dr. Clarence Cunningham pursuant to the statistical treatment of a doctorial dissertation | II 2 | 0 | 1 | 1 | | | | |
| --Conferred with Dr. Ralph Bender and Dr. Richard Wilson regarding their consultative role at the R.C.U. | II 2 | 1 | 1 | 0 | | | | |
| --Participated in Seminar on Research Design, Department of Agricultural Education, The Ohio State University | | | | | II 1 | 1 | 1 | 1 |
| --Participated in in-service training under Dr. Francis E. Walker relative to the use, programing, and interpretation of the MR-90 program for the IBM 1790 Computor | | | | | II 1 | 0 | 1 | 2 |

DEVELOPMENT & RESEARCH

| S | C | F | D | S | C | F | D |
|---|---|---|---|---|---|---|---|
| | | | | II | | | |
| | | | | 0 | 0 | 4 | 0 |
| | | | | II | | | |
| | | | | 2 | 0 | 2 | 0 |
| | | | | II | | | |
| | | | | 0 | 0 | 4 | 0 |
| II | | | | | | | |
| 2 | 0 | 2 | 0 | | | | |
| II | | | | | | | |
| 1 | 1 | 1 | 1 | | | | |
| II | | | | | | | |
| 0 | 0 | 4 | 0 | | | | |
| 7 | 2 | 9 | 2 | 4 | 1 | 12 | 3 |
| 22 | 19 | 51 | 18 | 5 | 8 | 13 | 10 |

--Attended a week long workshop in Research and Evaluation Techniques for Professional Staff of the Ohio Department of Education

--Consulted with numerous professional staff members of The Ohio State University pursuant to development research of the Department of Agricultural Education

--Continued search for resource materials on demographic, financial, and employment information relative to vocational education planning

--Consulted with Mr. Robert Benyon, Director of Research, Department of Education, State of Ohio, relative to a new computor for the Department of Education, State of Ohio

--Attended a two day national research coordinating unit meeting in Washington, D. C.

--Interviewed personnel, professional and secretarial

Total number of weighted involvements by function

Total number of weighted involvements by function for Unit Administration and Development

In-service training in research continued to be stressed, particularly for the research technicians, in a concentrated effort to improve their efficiency and expertise.

ACTIVITIES AND/OR ACCOMPLISHMENTS

| S | C | F | D | S | C | F | D |
|---|---|---|---|---|---|---|---|
| I | | | | | | | |
| 1 | 1 | 1 | 1 | | | | |
| I | | | | | | | |
| 0 | 0 | 4 | 0 | | | | |
| 1 | 1 | 5 | 1 | | | | |
| | | | | II | | | |
| | | | | 2 | 0 | 0 | 2 |

--Set up a filing system to facilitate the storage and use of Ohio Bureau of Unemployment Labor Market and employment information

--Consulted with Dr. Norton pursuant to statistical designs that might be used in analyzing data to be gathered through a research study

Total number of weighted involvements by function

--Counseled with Mr. Harry A. Davis, Counselor, University Counseling Service, The Ohio State University, pursuant to validating questionnaires and tests for readability factors

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Counseled with, reviewed, and endorsed a IV(c) proposal entitled, "Communication Concepts for Developing Increased Competence Among Cooperative Extension and Vocational Agricultural Educators in Implementing Educational Change", initiated by Dr. Robert W. McCormick, Professor, Department of Agricultural Education, The Ohio State University | | | | | II 0 | 1 | 2 | 1 |
| --Participated in the Research Design and Sampling Seminar for Graduate personnel of the Department of Agricultural Education, The Ohio State University | | | | | II 1 | 1 | 0 | 2 |
| --Worked with Dr. Floyd McCormick and high school teachers in developing experimental instructional units to be used in vocational agriculture | | | | | II 1 | 1 | 1 | 1 |
| --Assisted Mr. Tower in developing a mailing list pursuant to an evaluation meeting | II 0 | 0 | 4 | 0 | | | | |
| --Consulted with Drs. Hensel, Bender, Baker, Cunningham, and McCormick relavent to research work on the improvement of agricultural economics instruction in vocational agriculture | | | | | II 2 | 0 | 2 | 0 |
| --Assisted in the final writing and editing of instructional materials to be used in vocational agriculture during the fall semester | | | | | II 1 | 1 | 2 | 0 |
| --Conference with Dr. Robert McCormick pursuant to the procedural delineation of statistical treatments of research design | | | | | II 1 | 0 | 0 | 3 |
| --Completed editorial work of instructional materials to be used in a research study by the Department of Agricultural Education | | | | | II 1 | 1 | 2 | 0 |
| --Met with pilot school teachers, who are to use the above instructional materials, to formulate plans for carrying out the field teaching of the units | | | | | II 2 | 1 | 0 | 1 |
| Total number of weighted involvements by function | 0 | 0 | 4 | 0 | 11 | 6 | 9 | 10 |

Additional effort was given the area of human resource research during the third quarter. The two primary activities with which the Unit was concerned were (1) a review of and assistance with a proposal inquiring into the development of communication concepts needed by educators in agricultural extension to implement educational change and (2) assistance in the design of a project for measuring the impact of instruction

in vocational agriculture on the student understanding of profit maximizing economic principles in farm management.

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Counseled with Dr. Francis E. Walker, Associate Professor and Program Analysis Director, The Department of Agricultural Economics and Rural Sociology, pursuant to computor programing of a vocational training program for adults in farm management | | | | | III 1 | 0 | 2 | 1 |
| --Arranged travel and authorization to attend the Central Region Research Conference in Agricultural Education, Lincoln, Nebraska, together with that of Dr. Richard Wilson, Consultant for the R.C.U. | | | | | III 1 | 0 | 3 | 0 |
| --Counseled with Mr. James Utzinger, teacher of vocational horticulture, Pleasant View, Ohio, pursuant to IV(c) facilitating proposal for an experimental horticulture facility | | | | | III 1 | 1 | 0 | 2 |
| --Attended conference with Dr. Byrl Shoemaker, Mr. C. O. Tower, Mr. D. R. Purkey, and Dr. Ervin Reed, Superintendent, regarding a potential vocational jointure of 32 schools in the suburban Cleveland, Ohio, area | | | | | III 0 | 3 | 1 | 0 |
| --Participated in the Central Region Research Conference in Agricultural Education held at Lincoln, Nebraska, together with Dr. Richard Wilson, Consultant for the R.C.U. | | | | | III 2 | 1 | 0 | 1 |
| --Conferred with Ralph E. Scherer pursuant to the potential research project entitled, "Comprehensive High School Occupational Work Experience Program" | | | | | III 4 | 0 | 0 | 0 |
| --Reviewed and inquired of a proposal entitled, "A Vocational Education Program - Offering Automotive Mechanics, Office Practices, and General Shop Practice - in the Junior and Senior High School" in Wellsville, Ohio | III 0 | 2 | 0 | 2 | | | | |
| --Counseled with Lloyd B. Smith, agriculture instructor, Delphos Public Schools, pursuant to reporting procedures of contact hours of farm management instruction relevant to research projects within the Department of Agricultural Education, The Ohio State University | | | | | III 1 | 2 | 0 | 1 |
| --Made a presentation at a research service session in Agricultural Education at The Ohio State University concerning statistical concepts and their application to the analysis of research data | III 4 | 0 | 0 | 0 | | | | |
| --Counseled with graduate student relative to the design of a research study concerning "Factors Influencing Vocational Education Programs in Small High Schools" | | | | | III 1 | 1 | 1 | 1 |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Consulted with a graduate student concerning statistical treatments of research data pertaining to a study of "The Relationships between Training and Economic Efficiency Factors of Farm Operators" | | | | | III 0 | 0 | 4 | 0 |
| --Conferred with Mr. Dewey Hale pursuant to a potential experimental training proposal entitled, "Aero-Space Ground Engineering Technician" and a feasible PERT Planning network | | | | | III 1 | 3 | 0 | 0 |
| --Conferred with personnel (Dr. Hank Sredl, Department of Research) of the Cincinnati Public Schools together with C. O. Tower pursuant to a potential proposal tentatively referred to as the "Rotating Industrial Laboratory Project" for programing experimentation of industrial education in senior high schools | | | | | III 1 | 1 | 0 | 2 |
| --Consulted Dr. Phillip Teske, via telephone, pursuant to expediting the small grant proposal of Mr. Richard Barker. The following day the Unit was notified the proposal was accepted and is now to be negotiated | | | | | III 3 | 0 | 0 | 1 |
| --Assisted in the preparation of a Vocational Education Community Study pursuant to the planning of a joint vocational school district in Adams and Brown Counties | III 0 | 0 | 4 | 0 | | | | |
| --Prepared a Vocational Education Community Study of Harrison and Tuscarawas Counties relative to the planning of an area joint vocational school district | III 0 | 0 | 4 | 0 | | | | |
| --Assisted the Marion County superintendent of schools in preparing a new proposal (Program and Building) for a joint vocational school district serving 1200 vocational pupils and 720 technical pupils to be submitted to the State Board of Education for approval and construction of a vocational school costing $5,416,000 | III 1 | 1 | 1 | 1 | | | | |
| --Discussed with Mr. Ervin E. Reed, Superintendent of the Cuyahoga County School System and his administrative staff, plans for a Cuyahoga County vocational survey that would study a plan for consolidating all school districts into one for vocational education. It would create a district larger than Cleveland with a population for K - 12 of over 200,000 pupils and a potential vocational enrollment of over 10,000 pupils. This would make five large vocational centers | III 1 | 1 | 1 | 1 | | | | |
| --Served as vocational education staff member to review project proposals under Title III Elementary and Secondary Act | III 0 | 0 | 4 | 0 | | | | |

DEVELOPMENT & RESEARCH

| S | C | F | D | S | C | F | D |
|---|---|---|---|---|---|---|---|
| III 2 | 2 | 0 | 0 | | | | |
| 8 | 6 | 10 | 4 | 16 | 12 | 11 | 9 |

--Consulted with Mr. Don Watson, Superintendent of the Mahoning Valley Manpower School on a research proposal of programed instruction for vocational education utilizing their computor

Total number of weighted involvements by function

The development and research efforts were expended on the area of education resource. Particular effort was given to the functions of stimulation and coordination in the desire to broaden the Unit's efforts in research. The relatively high proportion of facilitating effort reflected the Unit's preparation of planning data for the initiation of joint vocational schools.

| S | C | F | D | S | C | F | D |
|---|---|---|---|---|---|---|---|
| I III 2 | 1 | III 0 | 1 | | | | |
| I III 1 | 1 | III 1 | 1 | | | | |
| I III 0 | 0 | III 4 | 0 | | | | |
| I III 0 | 0 | III 4 | 0 | | | | |
| I III 1 | 1 | III 1 | 1 | | | | |
| | | | | I III 2 | 1 | 1 | 0 |
| I III 0 | 0 | III 4 | 0 | | | | |

--Participant in a review of potential research of the Department of Agricultural Education, The Ohio State University, for the next ten years

--Counseled with Dr. Richard Wilson pursuant to the preliminary design of conference facilities and procedures for the Central Region Research Conference in Agricultural Education to be held at The Ohio State University August__, 1967

--Consulted with all vocational area supervisors relevant to securing material for computor coding of programs

--Consultations with R.C.U. staff and others pursuant to programing of the University of California (Berkeley) project on Research and Development in the State Administration of Vocational Education. The data gathering meetings were conducted on September 20 at the Southern Hotel in Columbus, Ohio

--Committee participant in a review presentation of potential research to the teacher training staff, the Department of Agricultural Education, The Ohio State University

--Conferred with Dr. Julia Dalyrumple, Researcher, School of Home Economics, The Ohio State University, regarding the initiation of micro-economic investigations of instruction in home economics at the local secondary school level

--Updated data through the sixth digit required for computor coding of programs for all remaining vocational services

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Consulted Drs. Taylor, Christianson, and Hensel relative to concurrent projects and new areas of concern by the Center of Vocational and Technical Education. In-service training material was also secured from Miss Hamilton concerning efficient office procedure | I II III 2 | 1 | 0 | 1 | | | | |
| --Completed Vocational Agriculture Service tabulations required for the United States Office of Education project of the University of Wisconsin regarding the development of a Vocational Educational Directory for each school and its curriculum offering in the United States. A beginning was also made concerning the same area of home economics | I II III 0 | 0 | 4 | 0 | | | | |
| --Participated in the Division of Vocational Education Staff meetings | I II III 1 | 1 | 1 | 1 | | | | |
| --Advised public school administration on problems related to vocational education problems and joint vocational schools | I II III 1 | 1 | 1 | 1 | | | | |
| --Answered questionnaires, letters, inquiries, and requests for information and materials for Division of Vocational Education | | | | | I II III 0 | 0 | 2 | 2 |
| --Presented vocational education school executives, boards of education, and lay groups, explaining vocational education, the joint vocational school and research on the nature and place of vocational education in the total education pattern | I II III 1 | 1 | 1 | 1 | | | | |
| --Culminated system analysis for Trade and Industrial Education Services reporting and printed instructions for programer and computor for 1966 | I II III 0 | 1 | 2 | 1 | | | | |
| --Designed System of School codes to serve all vocational services in Ohio and yet be compatable with new United States Office of Education reporting for FY 1967 | I II III 0 | 1 | 2 | 1 | | | | |
| --Appeared before the Clermont County Teachers Association. Presented vocational education, the joint vocational school, and research on the nature and place of vocational education pattern | I II III 1 | 1 | 1 | 1 | | | | |
| --Attended and participated in the Ohio Vocational Association two day meeting | I II III 1 | 1 | 1 | 1 | | | | |
| --Consulted with United States Office of Education on reporting of vocational education FY 1967 | I II III 0 | 1 | 2 | 1 | | | | |
| --Instructed and assisted Trade and Industrial Education services in preparing their annual statistical reports for United States Office of Education and state by the designed data processing system | I II III 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Appeared before two hearings (Ohio County Superintendents and Ohio Association of School Administrators) conducted by Dr. D. R. Purdy, Project Director of the Master Plan for School Districting Organization for the State of Ohio, presenting and defending proposed school district organization for vocational and technical education | I 1 | II 1 | III 1 | 1 | | | | |
| --Assisted Dr. D. R. Purdy, Project Director of the Master Plan for School Districting Organization for the State of Ohio, in designing a questionnaire on vocational education to be sent to the Ohio Manufacturer's Association | I 1 | II 0 | III 1 | 2 | | | | |
| --Prepared for Dr. D. R. Purdy, Project Director of the Master Plan for School Districting Organization for the State of Ohio, "Organizational Pattern for Vocational Education Programs" showing 5 patterns of district organizations for vocational education at the secondary level with strengths and possible limitations of each | I 1 | II 0 | III 1 | 2 | | | | |
| --Consulted with a graduate student relative to the statistical design of a research study concerning the "Teaching of Economic Principles in Vocational Agriculture" | | | | | I 1 | III 0 | 3 | 0 |
| --Counseled and assisted a graduate student concerning statistical treatments of data pertaining to a national research study concerning "Vocational Education Programs for Youth With Special Needs" | | | | | II 1 | III 1 | 1 | 1 |
| Total number of weighted involvements by function | 15 | 14 | 33 | 17 | 5 | 2 | 7 | 3 |
| Total number of weighted involvements by function for Activities and/or Accomplishments | 24 | 21 | 52 | 22 | 32 | 20 | 27 | 22 |
| Grand Total number of weighted involvements by function for Third Quarter | 46 | 40 | 107 | 40 | 37 | 28 | 40 | 32 |

Fourth Quarter
Ohio Research and Development
Coordinating Unit in
Occupational Education

## UNIT ADMINISTRATION AND DEVELOPMENT

--Met with Dr. Alfred B. Garrett, Vice President for Research, The Ohio State University, relative to research policy and programs at The Ohio State University.

--Developed visual presentation dealing with the organizational and resource structure of vocational research from the federal to the local level including the functions of the Ohio Research Coordinating Unit.

--Arranged for a demonstration of the Bell and Howell ERIC microfiche reader through the director of the Micro-Data Division of Bell and Howell, Cleveland, Ohio.

--Participated in staff meetings of the Agricultural Education Department of The Ohio State University and in joint staff meetings of agricultural supervision and teacher education.

--Refined visuals presentation dealing with the organizational and resource structure of vocational research from the federal to the local level including the functions of the Ohio Research Coordinating Unit.

--Assisted in the compulation and preparation of data for the annual report of the vocational services to the U. S. Office of Education.

--Attended a two day annual staff meeting of the Vocational Division of the Ohio State Department of Education at The Ohio State University.

--Prepared fourth quarterly R.C.U. report for the U. S. Office of Education covering the months of October and November 1966.

--Commenced the formulation of the final report for the U. S. Office of Education on the project entitled, "An Occupational Research and Development Coordination Unit of the Division of Vocational Education of the Department of Education, State of Ohio."

--Analyzed all vocational education forms and presented analysis to Mr. Deem of Midwestern who has contract for installation of data processing equipment for all of State Department of Education.

| DEVELOPMENT & RESEARCH | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Stimulate | Coordinate | Facilitate | Disseminate | Stimulate | Coordinate | Facilitate | Disseminate | |
| I | | | | | | | | |
| 0 | 4 | 0 | 0 | | | | | |
| I | | | | | | | | |
| 0 | 0 | 4 | 0 | | | | | |
| I | | | | | | | | |
| 0 | 0 | 4 | 0 | | | | | |
| I | | | | | | | | |
| 1 | 1 | 1 | 1 | | | | | |
| I | | | | | | | | |
| 0 | 0 | 4 | 0 | | | | | |
| I | | | | | | | | |
| 0 | 0 | 4 | 0 | | | | | |
| I | | | | | | | | |
| 0 | 0 | 4 | 0 | | | | | |
| I | | | | | | | | |
| 1 | 1 | 1 | 1 | | | | | |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Arranged and published "R.C.U. Notes" Vol. 1, No. 4, December 1966, entitled, "ERIC and You." | I<br>0 | 0 | 4 | 0 | | | | |
| --Counseled with Dr. Edward Darrow on the status of R.C.U. funds and the disbursement procedures. | I<br>1 | 1 | 2 | 0 | | | | |
| --Reviewed and up-dated R. C. U. office files. | I<br>0 | 0 | 4 | 0 | | | | |
| --Oriented Mr. Hamilton with files, procedures and current involvement of the Ohio Research Coordinating Unit. | I<br>0 | 1 | 2 | 1 | | | | |
| --Conferred with Drs. Bender and Wilson pursuant to Research Coordinating Unit objectives and projections. | I<br>1 | 1 | 0 | 2 | | | | |
| --Developed prototype methodology for Research Coordination Unit final report due June 30, 1967. | I<br>0 | 0 | 4 | 0 | | | | |
| --Attended research meeting at American Vocational Association Convention in Denver, Colorado, and some of the seminar meetings on Research for Large Cities held during the convention. | I<br>0 | 0 | 4 | 0 | | | | |
| Total number of weighted involvements by function | 5 | 10 | 47 | 6 | | | | |
| --Conferred with Dr. Schilbein and Mr. Merriman relative to evaluation Project at The Ohio State University. | II<br>1 | 2 | 1 | 0 | | | | |
| --Attended a two day regional meeting in Chicago to study vocational education policies and reporting with U. S. Office of Education representatives. | II<br>1 | 1 | 1 | 1 | | | | |
| --Assisted in compiling survey materials, tables, etc. | | | | | II<br>0 | 0 | 4 | 0 |
| --Assisted in follow-up work of gathering informational materials for the Research and Development in State Administration of Vocational-Technical Education Study sponsored by the University of California; final reports have been completed. | | | | | II<br>0 | 0 | 3 | 1 |
| --Continued search for resource material on demographic financial and employment information relative to vocational education planning. | | | | | II<br>0 | 0 | 4 | 0 |
| Total number of weighted involvements by function | 2 | 3 | 2 | 1 | 0 | 0 | 11 | 1 |
| Total number of weighted involvements by function for Unit Administration and Development | 7 | 13 | 49 | 7 | 0 | 0 | 11 | 1 |

## ACTIVITIES AND/OR ACCOMPLISHMENTS

--Five achievement tests in Trade and Industrial have been standardized in a 5 state area. Studied the possibilities and advantages of standardizing them on a national basis with a much larger population. Looked for competent personnel to prepare a proposal for the study. Employed John Camiscioni and Dr. Ralph Ingersoll to prepare a proposal for standardizing Trade and Industrial tests to be submitted to a granting agency for refunding.

--Conferred with Dr. Ted Darrow pursuant to fiscal procedures utilizing R.C.U. funds.

Total number of weighted involvements by function

--Compiled and prepared data concerning educational levels of Ohio population by age categories.

--Assisted in conducting Annual Ohio Vocational Industrial Club Convention.

--Developed a revised cost plan for blanketing the State of Ohio with joint vocational schools and technical institutes to accommodate 100,000 vocational and technical pupils at a cost of approximately $200,000,000.

--Assisted in analyzing and formulating materials for county joint vocational school study.

--Reviewed and gathered U. S. census data of Ohio pursuant to socio-economic conditions as it applies to education in the state by counties.

--Worked with pilot school teachers of vocational agriculture who are using instructional materials formulated by the Department of Education in appraising the values of these units.

--Assisted in compiling vocational training data pursuant to Ohio schools for Washington report.

--Continued work with the Department of Agricultural Education and its research study of economic principles for vocational agriculture. Contacts have been made with both pilot and control schools in order to gain further insights to improvements of agricultural economics instruction in Vocational Agriculture.

--Further study has been carried out of statistical methods and procedures used in education research.

Total number of weighted involvements by function

| DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|
| S | C | F | D | S | C | F | D |
| I | | | | | | | |
| 0 | 0 | 4 | 0 | | | | |
| I | | | | | | | |
| 0 | 3 | 1 | 0 | | | | |
| 0 | 3 | 5 | 0 | | | | |
| II | | | | | | | |
| 0 | 0 | 4 | 0 | | | | |
| II | | | | | | | |
| 1 | 1 | 2 | 0 | | | | |
| II | | | | | | | |
| 1 | 1 | 1 | 1 | | | | |
| | | | | II | | | |
| | | | | 0 | 1 | 2 | 1 |
| | | | | II | | | |
| | | | | 0 | 0 | 4 | 0 |
| | | | | II | | | |
| | | | | 0 | 2 | 2 | 0 |
| | | | | II | | | |
| | | | | 0 | 0 | 4 | 0 |
| | | | | II | | | |
| | | | | 0 | 2 | 2 | 0 |
| | | | | II | | | |
| | | | | 1 | 1 | 2 | 0 |
| 2 | 2 | 7 | 1 | 1 | 6 | 16 | 1 |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Initiated the development of a set of guidelines, instruments, and aids for use by joint vocational school district boards of education in the selection of building sites for joint vocational schools. | III 1 | 0 | 2 | 1 | | | | |
| --Studied with Dr. W. Ramsey, Superintendent of Penta County J.V.S. a research proposal to be funded from IV(c) to produce a profile of the school. | III 2 | 2 | 0 | 0 | | | | |
| --Discussed with Dr. Ervin Reed, Superintendent of the Cuyahoga County school system and his administrative staff concerning their Cuyahoga County Vocational Survey for providing a vocational program for all their school districts involving 10,000 potential vocational pupils. | III 1 | 1 | 1 | 1 | | | | |
| --Followed through on the discussion and plans of previous months with Dr. Ervin Reed, Superintendent of the Cuyahoga County School System, and his administrative staff for a Cuyahoga County vocational survey by arranging for a student vocational interest inventory for all 10th and 11th grade pupils. | III 1 | 1 | 1 | 1 | | | | |
| --Counseled with Dr. Henry Sredl relative to the finalization of the project entitled, "Rotational Industrial Laboratory Project." | | | | | III 2 | 1 | 0 | 1 |
| --Assisted Mr. Richard Barker in expediting funding negotiations for his small grant project entitled, "Development of Instructional Units for Teaching Basic Profit Maximizing Principles in Vocational Agriculture." | | | | | III 0 | 0 | 4 | 0 |
| --Assisted in the facilitation of the training proposal entitled, "Developing Techniques and Procedures for Enriching and Expanding Programs of Instruction in Vocational Education for Young Farmers" by the Department of Agricultural Education, The Ohio State University. | | | | | III 0 | 3 | 1 | 0 |
| --Reviewed the first draft of a research project entitled, "Rotational Industrial Laboratory Project" initiated by Dr. Henry Sredl of the Cincinnati Public Schools. | | | | | III 2 | 1 | 0 | 1 |
| --Carried out extensive study of statistical methods and procedures used in educational research. | | | | | III 1 | 1 | 2 | 0 |
| Total number of weighted involvements by function | 5 | 4 | 4 | 3 | 5 | 6 | 7 | 2 |
| --Developed a breakdown of all Ohio employed persons into broad occupational categories related to each of the vocational service areas and the professional levels. | I II 0 | 0 | 4 | 0 | | | | |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Coordinated Cleveland Public Schools, State of Ohio Division of Vocational Education, Vocational Rehabilitation Bureau and the U. S. Office of Education in Phase I of the development of a vocational education program for the disadvantaged youth in Cleveland at the Thomas Edison School. | I | II | | | | | | |
| | 0 | 4 | 0 | 0 | | | | |
| --Completed the filing procedures for proposed and funded project grants as reported by H. E. & W. into categories of (1) Economic Opportunities, (2) Human Resources, and (3) Education Resources Development. | I | II | III | | | | | |
| | 0 | 0 | 4 | 0 | | | | |
| --Updated the "Tabulation of Completed Proposals Reviewed by the Ohio R.C.U." | I | II | III | | | | | |
| | 0 | 0 | 4 | 0 | | | | |
| --Examined each vocational service's report forms as to their relevance for inclusion in a general vocational code for use in the computorization of records. | I | II | III | | | | | |
| | 0 | 0 | 4 | 0 | | | | |
| --Committee participation in a review presentation of potential research to the teacher training staff, the Department of Agricultural Education, The Ohio State University. | I | II | III | | | | | |
| | 1 | 1 | 1 | 1 | | | | |
| --Prepared "R.C.U. Notes" Vol. I, No. 4, materials on the "ERIC Information and Retrieval System." | I | II | III | | | | | |
| | 0 | 0 | 2 | 2 | | | | |
| --Commenced compilation of inquiries to the Ohio Research Coordinating Unit regarding potential proposals. | I | II | III | | | | | |
| | 0 | 0 | 4 | 0 | | | | |
| --Compiled and prepared data concerning high school and adult business education and home economics education programs in Ohio schools for use in a National Vocational Education Directory Project conducted by the University of Wisconsin. | I | II | III | | | | | |
| | 0 | 0 | 4 | 0 | | | | |
| --Compiled and prepared school enrollment data for all Ohio schools conducting vocational education programs as a part of a National Vocational Education Directory Project conducted by the University of Wisconsin. | I | II | III | | | | | |
| | 0 | 0 | 4 | 0 | | | | |
| --Compiled and prepared data concerning high school and adult trade and industrial programs in Ohio high schools for use in a National Vocational Directory Project conducted by the University of Wisconsin. | I | II | III | | | | | |
| | 0 | 0 | 4 | 0 | | | | |
| --Presented vocational education to school executives, boards of education, and lay groups explaining vocational education, the joint vocational school and research on the nature and place of vocational education in the total education pattern. | I | II | III | | | | | |
| | 1 | 1 | 1 | 1 | | | | |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Advised public school administrators on problems related to vocational education problems and joint vocational schools. | I | II | III | | | | | |
| | 1 | 1 | 1 | 1 | | | | |
| --Studied the Reading Public School System with Mr. Ron Hilners, Division of Curriculum, and other staff members; and Lincoln Heights Public School System with Superintendent Willis Holloway and others. | I | II | III | | | | | |
| | 1 | 1 | 1 | 1 | | | | |
| --Supervised the preparation of U. S. Office of Education reports. | I | II | III | | | | | |
| | 1 | 1 | 1 | 1 | | | | |
| --Appeared before the Ohio Citizens Council and presented federal aid to education and vocational education. | I | II | III | | | | | |
| | 1 | 1 | 1 | 1 | | | | |
| --Appeared before the Central Ohio Trade and Industrial Education Association and presented the functions and activities of the Ohio R.C.U. | I | II | III | | | | | |
| | 1 | 1 | 1 | 1 | | | | |
| --Conducted two day in-service leadership development workshop for the State Staff of the Division of Vocational Education. | I | II | III | | | | | |
| | 1 | 1 | 1 | 1 | | | | |
| --Participated in the Division of Vocational Education Staff meetings. | I | II | III | | | | | |
| | 1 | 1 | 1 | 1 | | | | |
| --Prepared Vocational Education reports FY 1967 for U. S. Office of Education. | I | II | III | | | | | |
| | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| --Facilitated arrangements to expedite the transmittal of state project proposals for conducting training programs for vocational and technical education personnel to the appropriate authorities in Washington, D. C. | | | | | I | II | III | |
| | | | | | 0 | 0 | 4 | 0 |
| --Transmitted five training proposals and counseled with U. S. Office of Education personnel relative to the submission of research proposals under present fiscal stringencies. A preliminary review of the first draft proposal entitled, "Rotational Industrial Laboratory Project" was made by Dr. Philip Teske of the U. S. Office of Education. | | | | | I | II | III | |
| | | | | | 0 | 0 | 4 | 0 |
| --Answered questionnaires, letters, inquiries, and requests for information and materials for Division of Vocational Education. | | | | | I | II | III | |
| | | | | | 0 | 0 | 2 | 2 |
| --Finalized responsibilities as ad hoc committee member of Research Projections in the Department of Agricultural Education. | | | | | I | II | III | |
| | | | | | 1 | 1 | 1 | 1 |
| --Conferred with numerous teacher training and supervisory staff members pursuant to research ideas and development. | | | | | I | II | III | |
| | | | | | 1 | 1 | 1 | 1 |

--Participated in presentation of ad hoc committee research programming report to Department of Agricultural Education faculty.

--Conference with The Center for Vocational and Technical Education personnel relative to emerging projects and their participants.

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| | | | | | I 1 | II 1 | III 1 | 1 |
| | | | | | I 2 | II 2 | III 0 | 0 |
| Total number of weighted involvements by function | 10 | 14 | 44 | 11 | 5 | 5 | 13 | 6 |
| Total number of weighted involvements by function for Activities and/or Accomplishments | 17 | 23 | 60 | 15 | 11 | 17 | 36 | 9 |
| Grand Total number of weighted involvements by function for Fourth Quarter | 24 | 36 | 109 | 22 | 11 | 17 | 47 | 10 |

Fifth Quarter
Ohio Research and Development
Coordinating Unit in
Occupational Education

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Coordinate Stimulate | Facilitate | Disseminate | Stimulate | Coordinate | Facilitate | Disseminate | |
| **UNIT ADMINISTRATION AND DEVELOPMENT** | | | | | | | | |
| --Participated in State Vocational Advisory Committee meetings. | I<br>0 | 0 | 0 | 4 | | | | |
| --Assisted in the direction of the F.F.A. evaluation session for schools in District 12 of Ohio. | I<br>1 | 1 | 1 | 1 | | | | |
| --Assisted in F.F.A. district evaluation with Richard Hummel, District Supervisor, at Liberty Center, Ohio. | I<br>1 | 1 | 1 | 1 | | | | |
| --Assisted in the direction of the F.F.A. evaluation session for District 7 schools in Ohio. | I<br>1 | 1 | 1 | 1 | | | | |
| --Participated in staff meetings of the Agricultural Education Department and the Vocational Agriculture Supervision. | I<br>1 | 1 | 1 | 1 | | | | |
| Total number of weighted involvements by function | 4 | 4 | 4 | 8 | | | | |
| --Investigated the data processing services of State Finance and Educational Departments and the University in preparation for contracting for preparation of State vocational reports for the year. | II<br>0 | 2 | 2 | 0 | | | | |
| --Participated in a session sponsored by the Division of Research concerning the use of Optical Scanning Equipment and the Computor installation of the Research Division of the Ohio Department of Education. | II<br>2 | 2 | 0 | 0 | | | | |
| Total number of weighted involvements by function | 2 | 4 | 2 | 0 | | | | |
| Total number of weighted involvements by function for Unit Administration and Development | 6 | 8 | 6 | 8 | | | | |
| **ACTIVITIES AND/OR ACCOMPLISHMENTS** | | | | | | | | |
| --Coordinated Cleveland Public Schools, State of Ohio Division of Vocational Education, Vocational Rehabilitation Bureau and the U. S. Office of Education in Phase I of the development of a vocational education program for the disadvantaged youth in Cleveland at the Thomas Edison School. | I<br>0 | 4 | 0 | 0 | | | | |
| --Five achievement tests in Trade and Industrial have been developed over the years. Studied the need and possibility of developing achievement tests in other areas and looked for competent person to develop these with committees and consultants. | I<br>0 | 0 | 4 | 0 | | | | |
| Total number of weighted involvements by function | 0 | 4 | 4 | 0 | | | | |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Prepared charts depicting the vocational education desires of Ohio high school students. | II 1 | 1 | 1 | 1 | | | | |
| --Consulted with a graduate student in the Department of Agricultural Education relative to the design of a study to determine the mobility and employment patterns of graduates of agricultural technician programs of Ohio. | II 3 | 1 | 0 | 0 | | | | |
| --Developed and tested a procedure for the collection of data relative to the characteristics of disadvantaged youth in Ohio high schools. | II 2 | 2 | 0 | 0 | | | | |
| --Consulted with a graduate student in the Department of Agricultural Education relative to the statistical treatment of data pertaining to the job competencies of persons employed in Ohio Agricultural Equipment establishments. | II 1 | 0 | 3 | 0 | | | | |
| --Consulted with a member of The National Center for Vocational and Technical Education pursuant to the statistical treatment of data from a study in progress concerning technician training in the field of horticulture. | II 1 | 0 | 3 | 0 | | | | |
| --Gathered and compiled data in eight Ohio high schools relative to the characteristics of youth with special needs in these schools. | | | | | II 1 | 0 | 3 | 0 |
| --Worked with the Department of Agricultural Education and its research project of economic principles for vocational agriculture. Post testing has begun and analysis of data is being coded and compiled. | | | | | II 0 | 2 | 2 | 0 |
| --Worked with vocational agriculture teachers who are participating in the Agricultural Education Department's study of economic principles. They were observed and assisted in their use of prepared materials. | | | | | II 1 | 1 | 2 | 0 |
| --Worked with Dr. Floyd McCormick, Dr. Ralph E. Bender, and other staff members of the Department of Agricultural Education and state supervisory personnel in evaluating new instructional units used by teachers of vocational agriculture. Twelve selected Ohio teachers assisted in the evaluation. | | | | | II 0 | 1 | 2 | 1 |
| --Conferred with John H. Melvin of the Ohio Academy of Science pursuant to the promotion of vocational education with specific emphasis on the encouragement of teaching agricultural science in secondary schools. | | | | | II 2 | 2 | 0 | 0 |
| --Conferred with interested parties pursuant to the development of vocational education program proposals for federal funding. | | | | | II 2 | 2 | 0 | 0 |
| Total number of weighted involvements by function | 8 | 4 | 7 | 1 | 6 | 8 | 9 | 1 |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Consulted with Ernst and Ernst on the development of data processing for State vocational information. | III<br>0 | 0 | 0 | 4 | | | | |
| --Reviewed and evaluated a IV(c) training proposal sponsored by The Ohio State University relating to the directing of vocational agriculture programs in joint vocational and area vocational schools. | III<br>1 | 2 | 1 | 0 | | | | |
| --Reviewed and evaluated Ohio proposals under Title III of the Elementary and Secondary Education Act. | III<br>0 | 4 | 0 | 0 | | | | |
| --Assisted in the development of a Vocational Education Community Report relative to the planning of an area joint vocational school district in the area of Champain, Hardin, Logan, Shelby, and Union counties. | III<br>0 | 0 | 3 | 1 | | | | |
| --Developed an instrument for the purpose of determining the importance which high school administrators place upon serving the disadvantaged and the importance of selected characteristics of vocational education programs to serve these students. | III<br>3 | 1 | 0 | 0 | | | | |
| --Assumed the responsibility as a consultant for a federally sponsored project in the Department of Agricultural Education of The Ohio State University. | III<br>3 | 1 | 0 | 0 | | | | |
| --Studied the effect of the jointure of Penta County Joint Vocational School on the population and state reimbursement of contributing schools, percent of classes and teachers. | | | | | III<br>1 | 1 | 1 | 1 |
| --Designed an analysis for a questionnaire sent by State Superintendent of Public Instruction to Superintendents of Public School Systems as a result of new legislation which requires all high schools to have an adequate vocational education program and all pupils to have a vocational education course if they withdraw prior to graduation. | | | | | III<br>1 | 1 | 1 | 1 |
| --Summarized the responses of Ohio schools to a vocational education survey conducted by the State Department of Education. | | | | | III<br>0 | 0 | 4 | 0 |
| --Prepared a single form to be used by all vocational services for approving and reimbursing local program of Vocational Education in Ohio. | | | | | III<br>0 | 0 | 4 | 0 |
| --Prepared instructions for a Programmer to prepare Data Processing. | | | | | III<br>0 | 0 | 4 | 0 |

| | DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | S | C | F | D | S | C | F | D |
| --Assisted in the compilation and reporting of a statewide survey of the methods Ohio high schools intend to employ in making vocational education available to all high school students. | | | | | III 0 | 0 | 3 | 1 |
| --Continued the follow-up and summary of the Ohio Vocational Education Survey initiated by the State Department of Education. The final report was written, reviewed by Dr. Shoemaker, and then presented to Dr. Harold J. Bowers, Assistant Superintendent of Public Instruction. | | | | | III 0 | 0 | 3 | 1 |
| --Cooperated with the University of California, Berkeley, and their research team on the Project on Research and Development in Administration of Vocational-Technical Education in the collection of information requested by them. | | | | | III 0 | 2 | 2 | 0 |
| --Counseled with students and staff members in reference to research proposals, studies, and statistical treatments of data. | | | | | III 1 | 1 | 2 | 0 |
| Total number of weighted involvements by function | 7 | 8 | 4 | 5 | 3 | 5 | 24 | 4 |
| --Participated in Division of Vocational Education Staff meetings. | I 1 | II 1 | III 1 | 1 | | | | |
| --Answered questionnaires, letters, inquiries, and requests for information and materials for the Division of Vocational Education. | | | | | I 0 | II 0 | III 2 | 2 |
| --Supervised the preparation of U. S. Office of Education reports. | I 1 | II 1 | III 1 | 1 | | | | |
| --Advised Superintendents of schools on joint vocational schools and their vocational programs. | I 1 | II 1 | III 1 | 1 | | | | |
| --Consulted with an assistant supervisor of vocational agriculture concerning the statistical design of a research study relating to role concepts of vocational educators. | II 1 | III 1 | 2 | 0 | | | | |
| Total number of weighted involvements by function | 4 | 4 | 5 | 3 | 0 | 0 | 2 | 2 |
| Total number of weighted involvements by function for Activities and/or Accomplishments | 19 | 20 | 20 | 9 | 9 | 13 | 35 | 7 |
| Grand Total number of weighted involvements by function for Fifth Quarter | 23 | 24 | 25 | 12 | 9 | 13 | 37 | 9 |

Sixth Quarter
Ohio Research and Development
Coordinating Unit in
Occupational Education

## UNIT ADMINISTRATION AND DEVELOPMENT

--Participated in staff meetings of the Agricultural Education Department of The Ohio State University and in joint staff meetings of agricultural supervision and teacher education.

--Assisted in the computation and preparation of data for the annual report of the vocational services.

--Participated in State Vocational Advisory Committee meetings.

--Participated in Division of Vocational Education Staff meetings.

Total number of weighted involvements by function for Unit Administration and Development

## ACTIVITIES AND/OR ACCOMPLISHMENTS

--Prepared "Project Activities" report for fiscal year 1968 for state of Ohio, Vocational Education.

--Developed a new universal program approval and reimbursement reporting form for opening and closing all Vocational Education programs in Ohio.

--Developed a uniform coding form for all types of Vocational Education programs in Ohio.

--Worked with George Kosbab and Dr. Engersol in the development of a research proposal for federal funding entitled "National Testing Program for Vocational Education Program Improvement."

--Consulted with graduate students relative to the design of research studies at Ohio State University.

--Assisted in the completion of study of "Youth with Special Needs in Non-Metropolitan Ohio High Schools."

--Assisted in the completion of study "An Appraisal of Instructional Units To Enhance Student Understanding of Profit-Maximizing Principles."

| DEVELOPMENT & RESEARCH | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Stimulate | Coordinate | Facilitate | Disseminate | Stimulate | Coordinate | Facilitate | Disseminate | | |
| I<br>1 | 1 | 1 | 1 | | | | | | |
| I<br>0 | 0 | 4 | 0 | | | | | | |
| I<br>0 | 0 | 0 | 4 | | | | | | |
| I<br>1 | II<br>1 | III<br>1 | 1 | | | | | | |
| 2 | 2 | 6 | 6 | | | | | | |
| I<br>0 | 0 | 4 | 0 | | | | | | |
| I | II<br>0 | III<br>3 | 1 | | | | | | |
| I | II<br>1 | III<br>2 | 1 | | | | | | |
| III<br>1 | 2 | 1 | 0 | | | | | | |
| II<br>3 | 1 | 0 | 0 | | | | | | |
| | | | | II<br>0 | III<br>1 | 1 | 2 | | |
| | | | | II<br>0 | III<br>1 | 1 | 2 | | |

--Consulted with members of The National Center for Vocational and Technical Education pursuant to results of recent studies completed in vocational education.

--Conferred with S. N. Guckenheimer, Director, Heath Area Vocational School, and his associates regarding a mobile laboratory for vocational guidance.

--Assisted in the development of Vocational Education Community Reports relative to the planning of area joint vocational school districts in the areas of (1) Upper Miami Valley, (2) Scioto County, and (3) Champion, Hardin, Logan, and Union Counties.

--Answered questionnaires, letters, inquiries, and requests for information and materials for the Division of Vocational Education.

--Consulted with superintendents and school committies pursuant to joint vocational schools and their vocational programs.

Total number of weighted involvements by function for Activities and/or Accomplishments

Grand Total number of weighted involvements by function for Sixth Quarter

| DEVELOPMENT & RESEARCH | | | | | | | |
|---|---|---|---|---|---|---|---|
| S | C | F | D | S | C | F | D |
| | | | | II | | | |
| | | | | 0 | 2 | 0 | 2 |
| II | | | | | | | |
| 1 | 1 | 2 | 0 | | | | |
| III | | | | | | | |
| 0 | 0 | 3 | 1 | | | | |
| | | | | I | II | III | |
| | | | | 0 | 0 | 2 | 2 |
| I | II | III | | | | | |
| 1 | 1 | 1 | 1 | | | | |
| 5 | 5 | 15 | 3 | 1 | 5 | 5 | 9 |
| 7 | 7 | 21 | 9 | 1 | 5 | 5 | 9 |